Index to Volume 95

July–December, 2001

Author Index

Abi-Said D. *See* Lacroix M, 190

Abrahams JM, Torchia M, Putt M, Kaiser LR, Judy KD. Risk factors affecting survival after brain metastases from non-small cell lung carcinoma: a follow-up study of 70 patients, 595

Adachi N. *See* Nagaro T, 425

Ahmed M. *See* Mimiko O, 372

Ainyette IG, Bowers P, Mimiko O, Ahmed M, Lazar M, Lliguin H. Right temporal lobe function. Letter, 372

———. *See* Holtzman RNN, 111

Akbasak A. *See* Proescholdt MA, 1012

Akita N. *See* Kaido T, 710

Akiyama SI. *See* Hirano H, 89

Al-Anazi AR, Holliday W, Sheikh B, Gentili F. Extraosseous endolymphatic sac low-grade adenocarcinoma mimicking posterior fossa meningioma, 893

Alberti O, Riegel T, Hellwig D, Bertalanffy H. Frameless navigation and endoscopy. Letter, 541

Alden TD. *See* Helm GA, 298

———. *See* Simmons NE, 1

Algra A. *See* Hop JW, 957

Alkadhi H, Keller M, Brandner S, Yonekawa Y, Kollia SS. Neuroimaging of cerebellar liponeurocytoma. Case report, 324

Allen JC. *See* Kothbauer KF, 503

Al-Mefty O. *See* Arnautović KI, 798

———. *See* Colli BO, 933

Alterman RL. *See* Feldman RP, 944

Andermann F. *See* Boling W, 242

Anno I. *See* Matsumura A, 914

Arai N. *See* Kawai K, 883

Arai T. *See* Nagaro T, 425

Arita K, Kurisu K, Tominaga A, Sugiyama K, Ikawa F, Yoshioka H, Sumida M, Kanou Y, Yajin K, Ogawa R. Thickening of sphenoid sinus mucosa during the acute stage of pituitary apoplexy. Case report, 897

Arnautović KI, Al-Mefty O. Surgical seeding of chordomas, 798

Asser T. *See* Rätsep, 393

Attanucci J. *See* Nakahara N, 984

Avezaat CJJ. *See* van Veelen-Vincent MLC, 432

Bak J. *See* Gunnarsson T, 144

Barami K, Hao HN, Lotoczky GA, Diaz FG, Lyman WD. Transplantation of human fetal brain cells into ischemic lesions of adult gerbil hippocampus, 308

Barcik U. *See* Lajeunie E, 778

Bareyre FM. *See* Laurer HL, 859

Barnett GH. *See* McCormick WE, 129

Bartels RHMA. *See* Koetsveld AC, 719

Bauhuf C. *See* Thomé C, 402

Bauman LA. *See* Cannon ML, 926, 1053

Beek JF. *See* Menovsky T, 694

Belzberg AJ. *See* Reavey-Cantwell JF, 525

Benoit JP. *See* Veziers J, 489

Bento RF. *See* Ribas GC, 1057

Beres EJ. *See* Helm GA, 298

Berg M. *See* Strauss C, 771

Berger MS. *See* Keles GE, 731, 735

———. *See* Vates GE, 233

Bernays RL. *See* Kollias SS, 15

Berry D. *See* Carlotti APCP, 420

Bertalanffy H. *See* Alberti O, 541

Berthoz A. *See* Lobel E, 804

Bessho T. *See* Nakao N, 275

Bianchini E. *See* Ferraresi S, 332

Bianco S. *See* Wray SD, 122

Bischoff B. *See* Strauss C, 771

Biscotti CV. *See* McCormick WE, 129

Bleys RLAW. Lateral sellar nerve plexus. Letter, 167

———, Janssen LM, Groen GJ. The lateral sellar nerve plexus and its connections in humans, 102

Blount JP. *See* Tubbs RS, 998

Bohn D. *See* Carlotti APCP, 420

Boling W, Andermann F, Reutens D, Dubeau F, Caporicci L, Olivier A. Surgery for temporal lobe epilepsy in older patients, 242

Bonas M. *See* Chroni E, 338

Boockvar JA, Loudon W, Sutton LN. Development of the Spitz-Holter valve in Philadelphia. Historical vignette, 145

Boscardin WJ. *See* Lee JH, 222

Bouccara D. *See* Kalamarides M, 1028

Boulos PT. Book review, 723

Bourgeois M. *See* Lajeunie E, 778

———. *See* Sainte-Rose C, 791

Bova FJ. *See* Foote KD, 440

Bowen KK. *See* Kim BT, 674

Bowers PP. *See* Holtzman RNN, 111

Brandner S. *See* Alkadhi, 324

Breier JI. *See* Simos PG, 76

Brinker T. *See* Rosahl SK, 845

Britto JA, Moore RL, Evans RD, Hayward RD, Jones BM. Negative autoregulation of fibroblast growth factor receptor 2 expression characterizing cranial development in cases of Apert (P253R mutation) and Pfeiffer (C278F mutation) syndromes and suggesting a basis for differences in their cranial phenotypes, 660

Brocaar MP. *See* van Veelen-Vincent MLC, 432
Brock M. *See* Kombos T, 608
Broda A. *See* Wolach B, 170
Brotchi J. *See* De Witte O, 746
Brugières P. *See* Decq P, 783
Brust JCM. *See* Holtzman RNN, 111
Buatti JM. *See* Foote KD, 440
Buchfelder M. *See* Fahlbusch R, 381
Budzik RF. *See* Hoh BL, 24
Burgess AW. *See* Nagane M, 472
Burke TG. *See* Polin RS, 538
Buxton N, Liu C, Dasic D, Moody P, Hope DT. Relationship of aneurysmal subarachnoid hemorrhage to changes in atmospheric pressure: results of a prospective study, 391

Cagli S. *See* Dalbasti T, 44
Cai DX. *See* Leonard JR, 82
Candy A. *See* Ponce FA, 346
Cannon ML, Glazier SS, Bauman LA. Metabolic acidosis, rhabdomyolysis, and cardiovascular collapse after prolonged propofol infusion. Case report, 1053
———, ———, ———. Propofol-infusion syndrome. Response, 926
Caporicci L. *See* Boling W, 242
Caputy AJ. Book review, 539
Carlotti APCP, Bohn D, Rutka JT, Singh S, Berry D, Sharman A, Cusimano M, Halperin ML. A method to estima e urinary electrolyte excretion in patients at risk for developing cerebral salt wasting, 420
Carpentier A. *See* Sainte-Rose C, 791
Carter AB, Price DL Jr, Tucci KA, Lewis GK, Mewborne J, Singh HK. Choroid plexus carcinoma presenting as an intraparenchymal mass. Case report, 1040
Carter BS. *See* Hoh BL, 24
Carvalho GA. *See* Samii M, 825
Carvi y Nievas MN. Clip slippage. Letter, 725
Cassada DC., See Tribble CG, 370
Castillo EM. *See* Simos PG, 76
Caltaneo FA, Fahie-Wilson MN, Concomitant occurrence of macroprolactin, exercise-induced amenorrhea, and a pituitary lesion: a diagnostic pitfall. Case report, 334
Cavenee WK. *See* Nagane M, 472
Chacko AG. *See* Sharma P, 905
Chambers IR. Receiver–operating characteristic curves. Letter, 919
Chambers WH. *See* Nakahara N, 984
Chan AS. *See* Wilkinson HA, 61
Chandika P. *See* Kim DH, 573, 584
Chang AR. *See* Tong CYK, 9
Cheeseman, A. *See* Crockard HA, 175, 184
Chiang VL, Torbey M, Rigamonti D, Williams MA. Ventriculopleural shunt obstruction and positive-pressure ventilation. Case report, 116
Choi SC. *See* Clifton GL, 733, 751
Chroni E, Paschalis C, Konstantinou D, Maraziotis T, Bonas M, Papapetropoulos T. Segmental myoclonus as the sole manifestation of a choroid plexus papilloma in the posterior fossa. Case report, 338
Chumas PD. *See* Sainte-Rose C, 791
Chung HS. *See* Kwon TH, 726
Ciklatekerlio Ö. *See* Kombos T, 608
Cinalli G. *See* Sainte-Rose C, 791
Clifton GL, Choi SC, Miller ER, Levin HS, Smith KR, Muizelaar JP, Wagner FC, Marion DW, Luerssen TG. Intercenter variance in clinical trials of head trauma—experience of the National Acute Brain Injury Study: Hypothermia, 751
———, Miller ER, Choi SC, Levin HS, Smith KR Jr, Muizelaar JP, Wagner FC Jr, Marion DW, Luerssen TG. Inercenter variance. Response, 733
———. *See* Markgraf CG, 979
Colli BO, Al-Mefty O. Chordomas of the craniocervical junction: follow-up review and prognostic factors, 933
Collmer DG. *See* Tandon N, 507
Contant CF, Valadka AB, Gopinath SP, Hannay HJ, Robertson CS. Adult respiratory distress syndrome: a complication of induced hypertension after severe head injury, 560
Couldwell WT, Yong VW. Editorial. Glioma invasion, 379
———. *See* Liu JK, 1083
———. *See* Rovit RL, 354
———. *See* Spiller M, 687
Crockard, HA, Cheeseman A, Steel T, Revesz T, Holton JL, Plowman N, Singh A, Crossman J. A multidisciplinary team approach to skull base chondrosarcomas, 184
———, Steel T, Plowman N, Singh A, Crossman J, Revesz T, Holton JL, Cheeseman, A. A multidisciplinary team approach to skull base chordomas, 175
Crossman J. *See* Crockard HA, 175, 184
Cunningham M. *See* Helm GA, 298
Cusimano M. *See* Carlotti APCP, 420
Czosnyka M, Smielewski P, Piechnik S, Steiner LA, Pickard JD. Cerebral autoregulation following head injury, 756

Dacey RG. *See* Rivet DJ, 538
Dahan EA. *See* Kalamarides M, 1028
Dahlin LB. *See* Scherman P, 316
Dalbasti T, Karabiyikoglu M, Ozdamar N, Oktar N, Cagli S. Efficacy of controlled-release papaverine pellets in preventing symptomatic cerebral vasospasm, 44
Damhaut P. *See* De Witte O, 746
Dare AO, Landi MK, Lopes DK, Grand W. Eyebrow incision for combined orbital osteotomy and supraorbital minicraniotomy: application to aneurysms of the anterior circulation. Technical note, 714
Das K. *See* Liu JK, 1083
Dasic D. *See* Buxton N, 391
Davidsson L. *See* Gunnarsson T, 144
Davis DG. *See* Jackson TR, 700
Decq P. Third ventriculostomy. Letter, 921
———, Guérinel CL, Sol JC, Brugières P, Djindjian M, Nguyen JP. Chiari I malformation: a rare cause of noncommunicating hydrocephalus treated by third ventriculostomy, 783
Deininger M. *See* Morgalla MH, 529
de Jong DA. *See* van Veelen-Vincent MLC, 432
Delashaw JB. Book review, 539
Delwel EJ. *See* van Veelen-Vincent MLC, 432
DeMonte F. *See* Lacroix M, 190

———. *See* Lang RR, 638
Dempsey RJ. *See* Kim BT, 674
De Salles AAF, Melega WP, Laćan G, Steele LJ, Solber TD. Radiosurgery performed with the aid of a 3-mm collimator in the subthalamic nucleus and substantia nigra of the vervet monkey, 990
De Witte O, Goldberg I, Wikler D, Rorive S, Damhaut P, Monclus M, Salmon I, Brotchi J, Goldman S. Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
Dhellemmes P. *See* Vinchon M, 249
Diaz FG. *See* Barami K, 308
Dietz K. *See* Morgalla MH, 529
Digre KB. *See* Schmidt RH, 704
Djindjian M. *See* Decq P, 783
Dote K. *See* Nagaro T, 425
Dubeau F. *See* Boling W, 242
Duckwiler GR. *See* Uda K, 624
Duffau H. Recovery from complete hemiplegia following resection of a retrocentral metastasis: the prognostic value of intraoperative cortical stimulations. Case report, 1050
Dufour H. *See* Régis J, 199
Duggal N, Iskander S, Hammond RR. Nestin expression in cortical dysplasia, 459
Dumont AS. Book review, 722
———, Hyndman ME, Dumont RJ, Fedak PM, Kassell NF, Sutherland GR, Verma S. Improvement of endothelial function in insulin-resistant carotid arteries treated with pravastatin, 466
Dumont RJ. *See* Dumont AS, 466
Dunsker SB. Give neurosurgery a place to stand. 2001 Presidential address, 927
Durham SR. Book review, 163

Eghbal R. *See* Samii M, 825
El Ghouzzi V. *See* Lajeunie E, 778
Elias WJ, Lopes MBS, Golden WL, Jane JA, Gonzales-Fernandez F. Trilateral retinoblastoma variant indicative of the relevance of the retinoblastoma tumor-suppressor pathway to medulloblastomas in humans. Case report, 871
Ellenbogen RG. *See* Mesiwala AH, 1034
Ellis TL. *See* Wray SD, 122
Elton S. *See* Tubbs RS, 998
Epstein FJ. *See* Kothbauer KF, 503
Evans RD. *See* Britto JA, 660

Fahie-Wilson MN. *See* Cattaneo FA, 334
Fahlbusch R, Ganslandt O, Buchfelder M, Schott W, Nimsky C. Intraoperative magnetic resonance imaging during transsphenoidal surgery, 381
———. *See* Strauss C, 771
Falcioni M, Sanna M. Cerebrospinal fluid leak after acoustic surgery. Letter, 373
———. *See* Sanna M, 168
Farmer JP. Omental transplantation for epilepsy. Letter, 544
———. *See* Mittal S, 67
Fedak PM. *See* Dumont AS, 466
Feindel W. *See* Preul MC, 148
Feiz-Erfan I. *See* Ponce FA, 346
Feldman RP, Alterman RL, Goodrich JT. Contemporary psychosurgery and a look to the future, 944
Fellows WK. *See* Nakahara N, 984
Ferraresi S, Garozzo D, Bianchini E. Aggressive fibromatosis (desmoid tumor) of the radial nerve: favorable resolution. Case report, 332
Fleetwood IG, Innes AM, Hansen SR, Steinberg GK. Familial trigeminal neuralgia. Case report and review of the literature, 513
Fletcher JM. *See* Simos PG, 76
Foote KD, Friedman WA, Buatti JM, Meeks SL, Bova FJ, Kubilis PS. Analysis of risk factors associated with radiosurgery for vestibular schwannoma, 440
Fourney DR. *See* Lacroix M, 190
Francis DJ. *See* Simos PG, 76
Frank G, Pasquini E, Mazzatenta D. Extended transsphenoidal approach. Letter, 917
Frank J. *See* Le H, 720
Friedman AH. *See* Husain AM, 888
Friedman JA, Meyer FB, Wetjen NM, Nichols DA. Balloon angioplasty to treat vasospasm after transsphenoidal surgery. Case illustration, 353
Friedman WA. *See* Foote KD, 440
Fukaya C. *See* Katayama Y, 213
———. *See* Yamamoto T, 1075
Fukui M. *See* Matsushima T, 268
Fukui S. *See* Miyazawa T, 500
Fukuyama K. *See* Kouhata T, 96
Fuller BG. *See* Iuliano BA, 143

Gaab MR. *See* Schroeder HWS, 542
Ganju A, Roosen N, Kline DG, Tiel RL. Outcomes in a consecutive series of 111 surgically treated plexal tumors: a review of the experience at the Louisiana State University Health Sciences Center, 51
Ganslandt O. *See* Fahlbusch R, 381
Garonzik I. *See* Reavey-Cantwell JF, 525
Garozzo D. *See* Ferraresi S, 332
Gavrieli R. *See* Wolach B, 170
Gentili F. *See* Al-Anazi AR, 893
Gharabaghi F. *See* Rosahl SK, 845
Gilsbach JM. *See* Krings T, 816
Gjedde A. *See* Sakoh M, 450
Glazier SS. *See* Cannon ML, 926, 1053
Glenn TC. *See* Lee JH, 222
Gobin YP. *See* Uda K, 624
Gokaslan ZL. *See* Lacroix M, 190
———. *See* Lang RR, 638
Goldberg I. *See* De Witte O, 746
Golden WL. *See* Elias WJ, 871
Goldman S. *See* De Witte O, 746
Gonzales-Fernandez F. *See* Elias WJ, 871
Goodrich JT. *See* Feldman RP, 944
Gopinath SP. *See* Contant CF, 560
Goto T, Kitazawa K, Tada T, Tanaka Y, Hongo K, Kobayashi S. Surgical dissemination of intracranial xanthogranulomas. Case illustration, 537
Governale LS, Vortmeyer AO, Zhuang Z, Oldfield EH. Fibrous meningioma in a patient with von Hippel–Lindau disease: a genetic analysis. Case report, 1045

Graamans K. *See* Sluyter S, 168, 169
Grabb PA. *See* Tubbs RS, 998
Grady MS. *See* Laurer HL, 859
Graf R. *See* Sakaki T, 495
Grand W. *See* Dare AO, 714
Grayeli AB. *See* Kalamarides M, 1028
Grisoli F. *See* Régis J, 199
Groen GJ. *See* Bleys RLAW, 102
Grosbras MH. *See* Lobel E, 804
Grote EH. *See* Morgalla MH, 529
Gruss JS. *See* Mesiwala AH, 1034
Guérinel CL. *See* Decq P, 783
Guilburd JN, Sviri GE. Role of dural fenestrations in acute subdural hematoma, 263
Gunnarsson T, Leszniewski W, Bak J, Davidsson L. An intradural cervical chordoma mimicking a neurinoma. Case illustration, 144
Gutiérrez M. *See* Péréz-López C, 124
Gyldensted C. *See* Sakoh M, 450

Haba T. *See* Inoue Y, 902
Hagihara N. *See* Kouhata T, 96
Halperin ML. *See* Carlotti APCP, 420
Hammond RR. *See* Duggal N, 459
Han PP. *See* Ponce FA, 346
Hanabusa K, Morikawa A, Murata T, Taki W. Acoustic neuroma with malignant transformation. Case report, 518
Hannay HJ. *See* Contant CF, 560
Hansen SR. *See* Fleetwood IG, 513
Hao HN. *See* Barami K, 308
Hasegawa M. *See* Hayashi Y, 138
Hashisaki GT. Book review, 164, 370
Hassenbusch SJ. *See* Lacroix M, 190
Hata N. *See* Sahara Y, 341
Hayashi Y, Iwato M, Hasegawa M, Tachibana O, von Deimling A, Yamashita J. Malignant transformation of a gangliocytoma/ganglioglioma into a glioblastoma multiforme: a molecular genetic analysis. Case report, 138
Hayward RD. *See* Britto JA, 660
Heiss WD. *See* Sakaki T, 495
Hellwig D. *See* Alberti O, 541
Helm GA, Li JZ, Alden TD, Hudson SB, Beres EJ, Cunningham M, Mikkelsen MM, Pittman DD, Kerns KM, Kallmes DF. A light and electron microscopic study of ectopic tendon and ligament formation induced by bone morphogenetic protein–13 adenoviral gene therapy. Laboratory investigation, 298
Henderson RD, Phan TG, Piepgras DG, Wlidicks EFM. Mechanisms of intracerebral hemorrhage after carotid endarterectomy, 964
Henn W. *See* Ketter R, 601
Herman T. *See* Tandon N, 507
Hermus ARMM. *See* Koetsveld AC, 719
Herzog M. *See* Rosahl SK, 845
Hess K. *See* Lacroix M, 190
Hevezi JM. *See* Tandon N, 507
Hillman J. Population-based analysis of arteriovenous malformation treatment, 633
Hiotsumatsu T. *See* Matsushima T, 268
Hirano H, Tanioka K, Yokoyama S, Akiyama SI, Kuratsu Ji. Angiogenic effect of thymidine phosphorylase on macrophages in glioblastoma multiforme, 89
———. *See* Tada K, 651
Hoff JT. *See* Masada T, 680
Hoh BL, Putman CM, Budzik RF, Carter BS, Ogilvy CS. Combined surgical and endovascular techniques of flow attention to treat fusiform and complex wide-necked intracranial aneurysms that are unsuitable for clipping or coil embolization, 24
Holland E. *See* Lacroix M, 190
Holland EC. *See* Lang RR, 638
Holliday W. *See* Al-Anazi AR, 893
Holodny AI, Schwartz TH, Ollenschleger M, Liu WC, Schulder M. Tumor involvement of the corticospinal tract: diffusion magnetic resonance tractography with intraoperative correlation. Case illustration, 1082
Holton JL. *See* Crockard HA, 175, 184
Holtzman RNN, Brust JCM, Ainyette IG, Bowers PP, Tikofsky RS, Lliguin HM, Hughes JEO. Acute ventricular hemorrhage in adults with hydrocephalus managed by corpus callosotomy and fenestration of the septum pellucidum. Report of three cases, 111
Hongo K. *See* Goto T, 537
Hoover DA, Mahmood A. Ossification of autologous pericranium used in duraplasty. Case report, 350
Hoover R. *See* Laurer HL, 859
Hop JW, Rinkel GJE, Algra A, van Gun J. Changes in functional outcome and quality of life in patients and caregivers after aneurysmal subarachnoid hemorrhage, 957
Hope DT. *See* Buxton N, 391
Horn P. *See* Thomé C, 402
Hoshida T. *See* Kaido T, 710
Hoshino S. *See* Laurer HL, 859
Hua Y. *See* Masada T, 680
Huang HJS. *See* Nagane M, 472
Hübner U. *See* Thomé C, 402
Hudson SB. *See* Helm GA, 298
Hughes JEO. *See* Holtzman RNN, 111
Hurlbert J. Book review, 370
Husain AM, Mendez M, Friedman AH. Intractable epilepsy following radiosurgery for arteriovenous malformation. Case report, 888
Hyndman ME. *See* Dumont AS, 466

Iaconetta G, Tessitore E, Samii M. Duplicated abducent nerve and its course: microanatomical study and surgery-related considerations, 853
Ikawa F. *See* Arita K, 897
Ikeda H, Jokura H, Yoshimoto T. Transsphenoidal surgery and adjuvant gamma knife treatment for growth hormone–secreting pituitary adenoma, 285
Ikejiri B. *See* Proescholdt MA, 1012
Inamura T. *See* Matsushima T, 268
Inenaga C. *See* Nishizawa S, 915
Innes AM. *See* Fleetwood IG, 513
Inoue Y, Ohata K, Nakayama K, Haba T, Shakudo M. An unusual middle fossa interdural epidermoid tumor. Case report, 902
Iplikcioglu AC. Subdural hematoma. Letter, 725

Ishihara S. *See* Miyazawa T, 500
Ishijima B. *See* Sugishita M, 372
Iskander S. *See* Duggal N, 459
Isla A. *See* Péréz-López C, 124
Itakura T. *See* Nakao N, 275
Iuliano BA, Nguyen TT, Fuller BG, Schrager JA, Oldfield EH. Cerebrospinal fluid rhinorrhea caused by metastatic angiosarcoma. Case illustration, 143
Iwato M. *See* Hayashi Y, 138

Jackson TR, Regine WF, Wilson D, Davis DG. Cerebellar liponeurocytoma. Case report and review of the literature, 700
Jallo GI. *See* Kothbauer KF, 503
Jane JA. *See* Elias WJ, 871
Jane JA Jr. Book review, 910
Jang T. *See* Kubiatowski T, 480
Janssen LM. *See* Bleys RLAW, 102
Jimenez E. *See* Kothbauer KF, 503
Johnson CM, III. Book review, 371
Johnson MD. *See* Weil RJ, 833
Jokura H. *See* Ikeda H, 285
Jollivet C. *See* Veziers J, 489
Jones BM. *See* Britto JA, 660
Jönig J. *See* Ketter R, 601
Judy KD. *See* Abrahams JM, 595
Juvela S. Editorial. Cigarette smoking and death following subarachnoid hemorrhage, 551

Kagan-Hallett K. *See* Tandon N, 507
Kahane P. *See* Lobel E, 804
Kaido T, Hoshida T, Uranishi R, Akita N, Kotani A, Nishi N, Sakaki T. Radiosurgery-induced brain tumor. Case report, 710
Kaiser LR. *See* Abrahams JM, 595
Kakishita K. *See* Nakao N, 275
Kalamarides M, Grayeli AB, Bouccara D, Dahan EA, Sollmann WP, Sterkers O, Rey A. Hearing restoration with auditory brainstem implants after radiosurgery for neurofibromatosis Type 2. Report of three cases, 1028
Kalhorn C. *See* Lang RR, 638
Kallmes DF. Book review, 911
———. *See* Helm GA, 298
Kam AC. *See* Kim DH, 573, 584
Kamiryo T. *See* Tada K, 651
Kanje M. *See* Scherman P, 316
Kanou Y. *See* Arita K, 897
Kaptain GJ. Book review, 162, 911
Karabiyikoglu M. *See* Dalbasti T, 44
Kasai M. *See* Katayama Y, 213
———. *See* Yamamoto T, 1075
Kassell NF. *See* Dumont AS, 466
Katayama Y, Kasai M, Oshima H, Fukaya C, Yamamoto T, Ogawa K, Mizutani T. Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213
———. *See* Yamamoto T, 1075
Katoh H. *See* Miyazawa T, 500
Kaufman BA. *See* Leonard JR, 82
Kawahara N. *See* Shin M, 435
Kawai K, Suzuki I, Kurita H, Shin M, Arai N, Kirino T. Failure of low-dose radiosurgery to control temporal lobe epilepsy. Report of two cases, 883
Kawamoto S. *See* Shin M, 435
Keep RF. *See* Masada T, 680
Keles GE, Lamborn K, Berger MS. Low-grade hemispheric gliomas in adults: a critical review of extent of resection as a factor influencing outcome, 735
———, ———, ———. Resection of low-grade gliomas. Response, 731
Keller M. *See* Alkadhi, 324
Kelly DF. Editorial,. Propofol-infusion syndrome, 925
———. *See* Lee JH, 222
Kerns KM. *See* Helm GA, 298
Ketter R, Henn W, Niedermayer I, Steilen-Gimbel H, Jönig J, Zang KD, Steudel WI. Predictive value of progression-associated chromosomal aberrations for the prognosis of meningiomas: a retrospective study of 198 cases, 601
Khurana VG. *See* Piepgras DG, 132
Kim BT, Raghavendra VL, Sailor KA, Bowen KK, Dempsey RJ. Protective effects of glial cell line–derived neurotrophic factor on hippocampal neurons after traumatic brain injury in rats, 674
Kim DH, Kam AC, Chandika P, Tiel RL, Kline DG. Surgical management and outcome in patients with radial nerve lesions, 573
———, ———, ———, ———, ———. Surgical management and outcomes in patients with median nerve lesions, 584
Kim SH, Park SC, Lee KC. Double-barreled tack suture procedure in carotid endarterectomy. Case illustration, 1079
Kimura S. *See* Nagaro T, 425
Kirby MA, Rapaport DH. Book review, 913
Kirino T. *See* Kawai K, 883
———. *See* Shin M, 435
———. *See* Takai K, 1081
Kirkpatrick PJ. *See* Turner CL, 764
Kitano M, Taneda M. Extended transsphenoidal approach. Letter, 917
Kitazawa K. *See* Goto T, 537
Kline DG. *See* Ganju A, 51
———. *See* Kim DH, 573, 584
Klug N. *See* Wedekind C, 974
Kobayashi K. *See* Yamamoto T, 1075
Kobayashi S. *See* Goto T, 537
Kochi M. *See* Tada K, 651
Koetsveld AC, Bartels RHMA, Wijnberg DS, Hermus ARMM, Lammens M. Drop metastasis from pituitary adenoma. Case illustration, 719
Koike A. *See* Sugishita M, 372
Kollias SS, Bernays RL. Interactive magnetic resonance imaging–guided management of intracranial cystic lesions by using an open magnetic resonance imaging system, 15
———. *See* Alkadhi, 324
Kondo T, Kumabe T, Maruoka S, Yoshimoto T. Diagnostic value of ^{201}Tl–single-photon emission computerized tomography studies in cases of posterior fossa hemangioblastomas, 292

———, Suess O, Ciklatekerlio Ö, Brock M. Monitoring of intraoperative motor evoked potentials to increase the safety of surgery in and around the motor cortex, 608
Kondziolka D. *See* Nakahara N, 984
———. *See* Tyler-Kabara E, 879
Konstantinou D. *See* Chroni E, 338
Kotani A. *See* Kaido T, 710
Kothbauer KF, Jallo GI, Siffert J, Jimenez E, Allen JC, Epstein FJ. Foreign body reaction to hemostatic materials mimicking recurrent brain tumor. Report of three cases, 503
Kouhata T, Fukuyama K, Hagihara N, Tabuchi K. Detection of simian virus 40 DNA sequence in human primary glioblastomas multiforme, 96
Krasznai L. *See* Morgalla MH, 529
Krings T, Reinges MHT, Thiex R, Gilsbach JM, Thron A. Functional and diffusion-weighted magnetic resonance images of space-occupying lesions affecting the motor system: imaging the motor cortex and pyramidal tracts, 816
Kubiatowski T, Jang T, Lachyankar MB, Salmonsen R, Nabi RR, Quesenberry PJ, Litofsky NS, Ross AH, Recht LD. Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Kubilis PS. *See* Foote KD, 440
Kulichkovskaya IV. *See* Sheleg SV, 721
Kumabe T. *See* Kondo T, 292
Kuratsu Ji. *See* Hirano H, 89
Kuratsu JI. *See* Tada K, 651
Kurisu K. *See* Arita K, 897
Kurita H. *See* Shin M, 435
Kurt E. *See* van Veelen-Vincent MLC, 432
Kwon TH, Park YK, Chung HS. Subdural hematoma. Letter, 726

Laćan G. *See* De Salles AAF, 990
Lachyankar MB. *See* Kubiatowski T, 480
Lacroix M, Abi-Said D, Fourney DR, Gokaslan ZL, Shi W, DeMonte F, Lang FF, McCutcheon IE, Hassenbusch SJ, Holland E, Hess K, Michael C, Miller D, Sawaya R. A multivariate analysis of 416 patients with glioblastoma multiforme: prognosis, extent of resection, and survival, 190
Lajeunie E, Barcik U, Thorne JA, El Ghouzzi V, Bourgeois M, Renier D. Craniosynostosis and fetal exposure to sodium valproate, 778
Lamborn K. *See* Keles GE, 731, 735
Lammens M. *See* Koetsveld AC, 719
Landi MK. *See* Dare AO, 714
Lang FF, Olansen NE, DeMonte F, Gokaslan ZL, Holland EC, Kalhorn C, Sawaya R. Surgical resection of intrinsic insular tumors: complication avoidance, 638
———. *See* Lacroix M, 190
Lanzino G, Laws ER Jr. Pioneers in the development of transsphenoidal surgery: Theodor Kocher, Oskar Hirsch, and Norman Dott. Historical vignette, 1097
Larner J. Book review, 912
Laurer HL, Bareyre FM, Lee VMYC, Trojanowski JQ, Longhi L, Hoover R, Saatman KE, Raghupathi R, Hoshino S, Grady MS, McIntosh TK. Mild head injury increasing the brain's vulnerability to a second concussive impact, 859
Laws ER Jr. Book review, 162, 723
———. Editorial. Resection of low-grade gliomas, 731
———. *See* Lanzino G, 1097
———. *See* Liu JK, 1083
———. *See* Simmons NE, 1
Lazar M. *See* Mimiko O, 372
Le H, Munshi I, Macdonald RL, Wollmann R, Frank J. Traumatic aneurysm resulting from insertion of an intracranial pressure monitor. Case illustration, 720
Le Bihan D. *See* Lobel E, 804
———. *See* Sakoh M, 450
Lee JH, Kelly DF, Oertel M, McArthur DL, Glenn TC, Vespa P, Boscardin WJ, Martin NA. Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Lee KC. *See* Kim SH, 1079
Lee VMYC. *See* Laurer HL, 859
Lehéricy S. *See* Lobel E, 804
Leonard JR, Cai DX, Rivet DJ, Kaufman BA, Park TS, Levy BK, Perry A. Large cell/anaplastic medulloblastomas and medullomyoblastomas: clinicopathological and genetic features, 82
Leonards U. *See* Lobel E, 804
Lesourd M. *See* Veziers J, 489
Leszniewski W. *See* Gunnarsson T, 144
Levin HS. *See* Clifton GL, 733, 751
Levitzki A. *See* Nagane M, 472
Levy BK. *See* Leonard JR, 82
Lewis GK. *See* Carter AB, 1040
Li JZ. *See* Helm GA, 298
Litofsky NS, Jang T, Ross AH, Recht LD. Glioma invasion. Response, 380
———. *See* Kubiatowski T, 480
Liu C. *See* Buxton N, 391
Liu JK, Das K, Weiss MH, Laws ER Jr, Couldwell WT. The history and evolution of transsphenoidal surgery. Historical vignette, 1083
Liu WC. *See* Holodny AI, 1082
Lliguin HM. *See* Holtzman RNN, 111
Lliguin J. *See* Mimiko O, 372
Lobel E, Kahane P, Leonards U, Grosbras MH, Lehéricy S, Le Bihan D, Berthoz A. Localization of human frontal eye fields: anatomical and functional findings of functional magnetic resonance imaging and intracerebral electrical stimulation, 804
Loh CT. *See* Schievink WI, 522
Longhi L. *See* Laurer HL, 859
Lopes DK. *See* Dare AO, 714
Lopes MBS. *See* Elias WJ, 871
Lotoczky GA. *See* Barami K, 308
Loudon W. *See* Boockvar JA, 145
Luerssen TG. *See* Clifton GL, 733, 751
Lundborg G. *See* Scherman P, 316
Lunsford LD. *See* Tyler-Kabara E, 879
Lyman WD. *See* Barami K, 308

Macdonald RL. *See* Le H, 720
Maestu F. *See* Simos PG, 76
Maggio WW. *See* Simos PG, 76
Mahmood A. *See* Hoover DA, 350

MAIXNER W. *See* Sainte-Rose C, 791
MANSOUR M. *See* Sainte-Rose C, 791
MARAZIOTIS T. *See* Chroni E, 338
MARION DW. *See* Clifton GL, 733, 751
MARK G. *See* Rosahl SK, 845
MARKGRAF CG, CLIFTON GL, MOODY MR. Treatment window for hypothermia in brain injury, 979
MAROTTA T. *See* Redekop G, 412
MARSHALL LF. Editorial. Intercenter variance, 733
MARTIN NA. *See* Lee JH, 222
MARUOKA S. *See* Kondo T, 292
MASADA T, HUA Y, XI G, YANG GY, HOFF JT, KEEP RF. Attenuation of intracerebral hemorrhage and thrombin-induced brain edema by overexpression of interleukin-1 receptor antagonist, 680
MASON JC. Book review, 910
MATHIESEN T. *See* Nordqvist ACS, 839
MATSUKADO K. *See* Matsushima T, 268
MATSUMURA A, ANNO I, NOSE T. Intracranial hypotension. Letter, 914
MATSUNO A, NAGASHIMA T. Prolactin-secreting gangliocytoma. Letter, 167
MATSUSHIMA T, MATSUKADO K, NATORI Y, INAMURA T, HIOTSUMATSU T, FUKUI M. Surgery on a saccular vertebral artery–posterior inferior cerebellar artery aneurysm via the transcondylar fossa (supracondylar transjugular tubercle) approach or the transcondylar approach: surgical results and indications for using two different lateral skull base approaches, 268
MATTHIES C. *See* Rosahl SK, 845
———. *See* Samii M, 825
MAYA MM. *See* Schievink WI, 522
MCARTHUR DL. *See* Lee JH, 222
MCCARTHY EFM. *See* Reavey-Cantwell JF, 525
MCCORMICK WE, BARNETT GH, PEEREBOOM DM, STEVENS GHJ, BISCOTTI CV. Delayed appearance of carbon granulomas of the scalp after use of carbon fiber pins for refixation of a stereotactic head frame. Case report, 129
MCCUTCHEON IE. *See* Lacroix M, 190
MCINTOSH TK. *See* Laurer HL, 859
MEALER A. *See* Weil RJ, 833
MEEKS SL. *See* Foote KD, 440
MEGO R. *See* Rafael H, 543
MELEGA WP. *See* De Salles AAF, 990
MENDEZ M. *See* Husain AM, 888
MENEI P. *See* Veziers J, 489
MENOVSKY T, BEEK JF. Laser, fibrin glue, or suture repair of peripheral nerves: a comparative functional, histological, and morphometric study in the rat sciatic nerve, 694
MERRILL MJ. *See* Proescholdt MA, 1012
MESIWALA AH, SHAFFREY CI, GRUSS JS, ELLENBOGEN RG. A typical hemifacial microsomia associated with Chiari I malformation and syrinx: further evidence indicating that Chiari I malformation is a disorder of the paraaxial mesoderm. Case report and review of the literature, 1034
METELLUS P. *See* Régis J, 199
METTENLEITER H. *See* Morgalla MH, 529
MEWBORNE J. *See* Carter AB, 1040
MEYER B, URBACH H, SCHALLER C, SCHRAMM J. Is stagnating flow in former feeding arteries an indication of cerebral hypoperfusion after resection of arteriovenous malformations? 36
———, ———, ———, ———. Occlusive hyperemia. Letter, 166
MEYER FB. *See* Friedman JA, 353
MICHAEL C. *See* Lacroix M, 190
MIKKELSEN MM. *See* Helm GA, 298
MILLER D. *See* Lacroix M, 190
MILLER ER. *See* Clifton GL, 733, 751
MISHIMA K. *See* Nagane M, 472
———. *See* Takai K, 1081
MITTAL S, FARMER JP, POULIN C, SILVER K. Reliability of intraoperative electrophysiological monitoring in selective posterior rhizotomy, 67
MIYAMOTO M. *See* Nakaguchi H, 119
MIYAUCHI H. *See* Takai K, 1081
MIYAZAWA T, FUKUI S, OTANI N, TSUZUKI N, KATOH H, ISHIHARA S, NAWASHIRO H, WADA K, SHIMA K. Peduncular hallucinosis due to a pineal meningioma. Case report, 500
MIZUTANI T. *See* Katayama Y, 213
MONCLUS M. *See* De Witte O, 746
MONTERO-MENEI C. *See* Veziers J, 489
MOODY MR. *See* Markgraf CG, 979
MOODY P. *See* Buxton N, 391
MOORE RL. *See* Britto JA, 660
MORGALLA MH, KRASZNAI L, DIETZ K, METTENLEITER H, DEININGER M, GROTE EH. Methods of experimental and clinical assessment of the relative measurement accuracy of an intracranial pressure transducer. Technical note, 529
MORI K. Management of idiopathic normal-pressure hydrocephalus: a multiinstitutional study conducted in Japan, 970
MORIKAWA A. *See* Hanabusa K, 518
MORINO T. *See* Tateshima S, 1020
MORITA A. *See* Shin M, 435
MUIZELAAR JP. *See* Clifton GL, 733, 751
———. *See* Verweij BH, 569
MUNSHI I. *See* Le H, 720
MURACCIOLE X. *See* Régis J, 199
MURATA T. *See* Hanabusa K, 518
MURAYAMA Y, SAKURAMA K, SATOH K, NAGAHIRO S. Identification of the carotid artery dural ring by using three-dimensional computerized tomography angiography. Technical note, 533
———. *See* Tateshima S, 1020
———. *See* Uda K, 624

NABI RR. *See* Kubiatowski T, 480
NAGAHIRO S. *See* Murayama Y, 533
NAGANE M, NARITA Y, MISHIMA K, LEVITZKI A, BURGESS AW, CAVENEE WK, HUANG HJS. Human glioblastoma xenografts overexpressing a tumor-specific mutant epidermal growth factor receptor sensitized to cisplatin by the AG1478 tyrosine kinase inhibitor, 472
NAGARO T, ADACHI N, TABO E, KIMURA S, ARAI T, DOTE K. New pain following cordotomy: clinical features, mechanisms, and clinical importance, 425
NAGASAKA T. *See* Sahara Y, 341
NAGASHIMA T. *See* Matsuno A, 167
NAITO Y. *See* Nakao N, 275
NAKAGUCHI H, MIYAMOTO M. Obstructive hydrocephalus caused by intraventricular collapse of malacotic brain. Case report, 119

———, Tanishima T, Yoshimasu N. Factors in the natural history of chronic subdural hematomas that influence their postoperative recurrence, 256
Nakahara N, Okada H, Witham TF, Attanucci J, Fellows WK, Chambers WH, Niranjan A, Kondziolka D, Pollack IF. Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Nakai K. *See* Nakao N, 275
Nakamura H. *See* Tada K, 651
Nakao N, Kakishita K, Uematsu Y, Yoshimasu T, Bessho T, Nakai K, Naito Y, Itakura T. Enhancement of the response to levodopa therapy after intrastriatal transplantation of autologous sympathetic neurons in patients with Parkinson disease, 275
Nakayama K. *See* Inoue Y, 902
Narita Y. *See* Nagane M, 472
Natori Y. *See* Matsushima T, 268
Nawashiro H. *See* Miyazawa T, 500
Nedzved AM. *See* Sheleg SV, 721
Nedzved MK. *See* Sheleg SV, 721
Nemoto S. *See* Takai K, 1081
Neu M. *See* Strauss C, 771
New PZ. *See* Tandon N, 507
Ng HK. *See* Tong CYK, 9
Nguyen JP. *See* Decq P, 783
Nguyen TT. *See* Iuliano BA, 143
Nichols DA. *See* Friedman JA, 353
———. *See* Piepgras DG, 132
Niedermayer I. *See* Ketter R, 601
Nimsky C. *See* Fahlbusch R, 381
Niranjan A. *See* Nakahara N, 984
Nishi N. *See* Kaido T, 710
Nishihara T. *See* Takai K, 1081
Nishizawa S, Tanaka T, Inenaga C. Intracranial hypotension. Letter, 915
———. *See* Sakai N, 909
Noordmans HJ. *See* Willems PWA, 1067
Nordqvist ACS, Smurawa H, Mathiesen T. Expression of matrix metalloproteinases 2 and 9 in meningiomas associated with different degrees of brain invasiveness and edema, 839
Nose T. *See* Matsumura A, 914
Noulé N. *See* Vinchon M, 249
Nozaki H. *See* Sakaki T, 495

Oakes WJ. *See* Tubbs RS, 998
Oertel M. *See* Lee JH, 222
Ogawa K. *See* Katayama Y, 213
Ogawa R. *See* Arita K, 897
Ogilvy CS. *See* Hoh BL, 24
Ohata K. *See* Inoue Y, 902
Okada H. *See* Nakahara N, 984
Oktar N. *See* Dalbasti T, 44
Olansen NE. *See* Lang RR, 638
Oldfield EH. *See* Governale LS, 1045
———. *See* Iuliano BA, 143
———. *See* Ratliff JK, 1001
Olivier A. *See* Boling W, 242
Ollenschleger M. *See* Holodny AI, 1082
Osborne AG. *See* Schmidt RH, 704
Oshima H. *See* Katayama Y, 213
———. *See* Yamamoto T, 1075
Østergaard L. *See* Sakoh M, 450
Otani N. *See* Miyazawa T, 500
Ozdamar N. *See* Dalbasti T, 44
Özgen T. *See* Ziyal IM, 541

Pang JCS. *See* Tong CYK, 9
Panigrahi M. Supracerebellar transtentorial approach. Letter, 916
Pantazis C. *See* Rosahl SK, 845
Papanicolaou AC. *See* Simos PG, 76
Papapetropoulos T. *See* Chroni E, 338
Park SC. *See* Kim SH, 1079
Park TS. *See* Leonard JR, 82
Park YK. *See* Kwon TH, 726
Parkinson D. Lateral sellar nerve plexus. Letter, 167
Paschalis C. *See* Chroni E, 338
Patel BCK. *See* Schmidt RH, 704
Pauw BK. *See* van Veelen-Vincent MLC, 432
Peereboom DM. *See* McCormick WE, 129
Pellet W. *See* Régis J, 199
Peragut JC. *See* Régis J, 199
Péréz-López C, Gutiérrez M, Isla A. Inflammatory pseudotumor of the median nerve. Case report and review of the literature, 124
Perry A. *See* Leonard JR, 82
Phan TG. *See* Henderson RD, 964
Piatt JH. Receiver–operating characteristic curves. Letter, 918
Pickard JD. *See* Czosnyka M, 756
Pidgeon CN. Clip slippage. Letter, 725
Piepgras DG. Occlusive hyperemia. Letter, 165
———, Khurana VG, Nichols DA. Occult rupture of a giant vertebral artery aneurysm following proximal occlusion and intrasaccular thrombosis. Case report, 132
———. *See* Henderson RD, 964
Pierre-Kahn A. *See* Sainte-Rose C, 791
Pittman DD. *See* Helm GA, 298
Plowman N. *See* Crockard HA, 175, 184
Pobereskin LH. Cigarette smoking and death following subarachnoid hemorrhage. Response, 553
———. Influence of premorbid factors on survival following subarachnoid hemorrhage, 555
Polin RS, Burke TG. Book review, 538
Pollack IF. *See* Nakahara N, 984
Ponce FA, Han PP, Spetzler RF, Candy A, Feiz-Erfan I. Associated arteriovenous malformation of the orbit and brain: a case of Syburn-Mason syndrome without retinal involvement. Case report, 346
Poon WS. *See* Tong CYK, 9
Poulin C. *See* Mittal S, 67
Pratt D. *See* Schmidt RH, 704
Preul MC, Feindel W. "The art is long and the life short": the letters of Wilder Penfield and Harvey Cushing. Historical vignette, 148
Price DL Jr. *See* Carter AB, 1040
Proescholdt MA, Merrill MJ, Ikejiri B, Walbridge S, Akbasak A, Jacobson S, Oldfield EH. Site-specific immune response to implanted gliomas, 1012

PUTMAN CM. *See* Hoh BL, 24
PUTT M. *See* Abrahams JM, 595

QUESENBERRY PJ. *See* Kubiatowski T, 480

RAFAEL H, MEGO R. Omental transplantation for epilepsy. Letter, 543
RAGHAVENDRA VL. *See* Kim BT, 674
RAGHUPATHI R. *See* Laurer HL, 859
RAMOS LMP. *See* Velthuis BK, 206
RAPAPORT DH. *See* Kirby MA, 913
RATLIFF JK, OLDFIELD EH. Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
RÄTSEP T, ASSER T. Cerebral hemodynamic impairment after aneurysmal subarachnoid hemorrhage as elevated using transcranial Doppler ultrasonography: relationship to delayed cerebral ischemia and clinical outcome, 393
REAVEY-CANTWELL JF, GARONZIK I, VIGLIONE MP, MCCARTHY EFM, BELZBERG AJ. A brachial plexopathy due to myositis ossificans. Case report and review of the literature, 525
RECHT LD. *See* Kubiatowski T, 480
REDEKOP G, MAROTTA T, WEILL A. Treatment of traumatic aneurysms and arteriovenous fistulas of the skull base by using endovascular stents, 412
REGINE WF. *See* Jackson TR, 700
RÉGIS J, METELLUS P, DUFOUR H, ROCHE PH, MURACCIOLE X, PELLET W, GRISOLI F, PERAGUT JC. Long-term outcome after gamma knife surgery for secondary trigeminal neuralgia, 199
REINGES MHT. *See* Krings T, 816
REKATE HL. Book review, 164
RENIER D. *See* Lajeunie E, 778
———. *See* Sainte-Rose C, 791
REUTENS D. *See* Boling W, 242
REVESZ T. *See* Crockard HA, 175, 184
REY A. *See* Kalamarides M, 1028
RIBAS GC, BENTO RF, RODRIGUES AJ JR. Anaglyphic three-dimensional stereoscopic printing: revival of an old method for anatomical and surgical teaching and reporting. Technical note, 1057
RIEGEL T. *See* Alberti O, 541
RIETZ LA. *See* Schmidt RH, 704
RIGAMONTI D. *See* Chiang VL, 116
RINKEL GJE. *See* Hop JW, 957
———. *See* Velthuis BK, 206
RIVET DJ, DACEY RG. Book review, 538
———. *See* Leonard JR, 82
ROBERTSON CS. *See* Contant CF, 560
ROCHE PH. *See* Régis J, 199
ROCKSWOLD GL, ROCKSWOLD SB. Effects of Hyperbaric oxygenation. Letter, 545
ROCKSWOLD SB. *See* Rockswold GL, 545
RODRIGUES AJ JR. *See* Ribas GC, 1057
RØHL L. *See* Sakoh M, 450
ROMSTÖCK J. *See* Strauss C, 771
ROOSEN N. *See* Ganju A, 51
RORIVE S. *See* De Witte O, 746
ROSAHL SK, MARK G, HERZOG M, PANTAZIS C, GHARABAGHI F, MATTHIES C, BRINKER T, SAMII M. Far-field responses to stimulation of the cochlear nucleus by microsurgically placed penetrating and surface electrodes in the cat, 845
ROSNER G. *See* Sakaki T, 495
ROSS AH. *See* Kubiatowski T, 480
ROUX FE. *See* Sainte-Rose C, 791
ROVIT RL, COULDWELL WT. No ordinary time, no ordinary men: the relationship between Harvey Cushing and Franklin D. Roosevelt, 1928–1939. Historical vignette, 354
ROWED DW. Cerebrospinal fluid leak after acoustic surgery. Letter, 373
RUTKA JT. *See* Carlotti APCP, 420

SAATMAN KE. *See* Laurer HL, 859
SAHARA Y, NAGASAKA T, TAKAYASU M, TAKAGI T, HATA N, YOSHIDA J. Recurrence of a neurenteric cyst with malignant transformation in the foramen magnum after total resection. Case report, 341
SAILOR KA. *See* Kim BT, 674
SAINTE-ROSE C, CINALLI G, ROUX FE, MAIXNER W, CHUMAS PD, MANSOUR M, CARPENTIER A, BOURGEOIS M, ZERAH M, PIERRE-KAHN A, RENIER D. Management of hydrocephalus in pediatric patients with posterior fossa tumors: the role of endoscopic third ventriculostomy, 791
SAKAI N, NISHIZAWA S. Cerebral air embolism after lung contusion. Case illustration, 909
SAKAKI S. *See* Sakoh M, 450
SAKAKI T, GRAF R, NOZAKI H, ROSNER G, HEISS WD. Possible control of intermittent cerebral ischemia by monitoring of direct-current potentials, 495
———. *See* Kaido T, 710
SAKOH M, ØSTERGAARD L, GJEDDE A, RØHL L, VESTERGAARD-POULSEN P, SMITH DF, LE BIHAN D, SAKAKI S, GYLDENSTED C. Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
SAKURAMA K. *See* Murayama Y, 533
SALMON I. *See* De Witte O, 746
SALMONSEN R. *See* Kubiatowski T, 480
SALTER G. *See* Tubbs RS, 998
SAMII M, EGHBAL R, CARVALHO GA, MATTHIES C. Surgical management of brainstem cavernomas, 825
———. *See* Iaconetta G, 853
———. *See* Rosahl SK, 845
SANNA M, TAIBAH A, FALCIONI M. Translabyrinthine–transtentorial approach. Letter, 168
———. *See* Falcioni M, 373
SASAKI T. *See* Shin M, 435
SATOH K. *See* Murayama Y, 533
SAWAYA R. *See* Lacroix M, 190
———. *See* Lang RR, 638
SAYA H. *See* Tada K, 651
SAZBON L. *See* Wolach B, 170
SCHALLER C. *See* Meyer B, 36, 166
SCHERMAN P, LUNDBORG G, KANJE M, DAHLIN LB. Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
SCHIEVINK WI, THOMPSON RC, LOH CT, MAYA MM. Spontaneous retroclival hematoma presenting as a thunderclap headache. Case report, 522

Schlesinger M. *See* Wolach B, 170
Schmidt RH, Rietz LA, Patel BCK, Osborne AG, Pratt D, Digre KB. Compressive optic neuropathy caused by renal osteodystrophy. Case report, 704
Schmiedek P. *See* Thomé C, 402
Schott W. *See* Fahlbusch R, 381
Schrager JA. *See* Iuliano BA, 143
Schramm J. *See* Meyer B, 36, 166
Schroeder HWS, Gaab MR. Frameless navigation and endoscopy. Letter, 542
Schulder M. *See* Holodny AI, 1082
Schwartz TH, Spencer DD. Strategies for reoperation after comprehensive epilepsy surgery, 615
———. *See* Holodny AI, 1082
Shaffrey CI. *See* Mesiwala AH, 1034
Shakudo M. *See* Inoue Y, 902
Sharma A. *See* Sharma P, 905
Sharma P, Sharma A, Chacko AG. Syringomyelia in spontaneous intracranial hypotension, 905
Sharman A. *See* Carlotti APCP, 420
Sheikh B. *See* Al-Anazi AR, 893
Sheleg SV, Nedzved MK, Nedzved AM, Kulichkovskaya IV. Contamination of glioblastoma multiforme with type 1 herpes simplex virus. Case illustration, 721
Shi W. *See* Lacroix M, 190
Shima K. *See* Miyazawa T, 500
Shimizu H. *See* Sugishita M, 372
Shin M, Kurita H, Sasaki T, Kawamoto S, Tago M, Kawahara N, Morita A, Ueki K, Kirino T. Analysis of treatment outcome after stereotactic radiosurgery for cavernous sinus meningiomas, 435
———. *See* Kawai K, 883
Shiraishi S. *See* Tada K, 651
Siffert J. *See* Kothbauer KF, 503
Silver K. *See* Mittal S, 67
Simmons NE, Alden TD, Thorner MO, Laws ER. Serum cortisol response to transsphenoidal surgery for Cushing disease, 1
Simos PG, Castillo EM, Fletcher JM, Francis DJ, Maestu F, Breier JI, Maggio WW, Papanicolaou AC. Mapping of receptive language cortex in bilingual volunteers by using magnetic resonance imaging, 76
Singh A. *See* Crockard HA, 175, 184
Singh S. *See* Carlotti APCP, 420
Singh HK. *See* Carter AB, 1040
Sluyter S, Graamans K, Tulleken CAF, van Veelen CWM. Translabyrinthine–transtentorial approach. Letter, 169
Smielewski P. *See* Czosnyka M, 756
———. *See* Turner CL, 764
Smith DF. *See* Sakoh M, 450
Smith KR Jr. *See* Clifton GL, 733, 751
Smurawa H. *See* Nordqvist ACS, 839
Sol JC. *See* Decq P, 783
Solber TD. *See* De Salles AAF, 990
Sollman WP. *See* Kalamarides M, 1028
Soto-Ares G. *See* Vinchon M, 249
Spencer DD. *See* Schwartz TH, 615
Spetzler RF. *See* Ponce FA, 346
Spiller M, Tenner MS, Couldwell WT. Effect of absorbable topical hemostatic agents on the relaxation time of blood: an in vitro study with implications for postoperative magnetic resonance imaging, 687
Steel LJ. *See* De Salles AAF, 990
Steel T. *See* Crockard HA, 175, 184
Steilen-Gimbel H. *See* Ketter R, 601
Steinberg GK. *See* Fleetwood IG, 513
Steiner LA. *See* Czosnyka M, 756
Sterkers O. *See* Kalamarides M, 1028
Steudel WI. *See* Ketter R, 601
Stevens GHJ. *See* McCormick WE, 129
Strauss C, Bischoff B, Neu M, Berg M, Fahlbusch R, Romstöck J. Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Suess O. *See* Kombos T, 608
Sugishita M, Koike A, Shimizu H, Suzuki I, Ishijima B. Right temporal lobe function. Letter, 372
Sugiyama K. *See* Arita K, 897
Sukoff MH. Effects of Hyperbaric oxygenation. Letter, 544
Sumida M. *See* Arita K, 897
Sutherland GR. *See* Dumont AS, 466
Sutton LN. *See* Boockvar JA, 145
Suzuki I. *See* Kawai K, 883
———. *See* Sugishita M, 372
———. *See* Takai K, 1081
Sviri GE. *See* Guilburd JN, 263

Tabo E. *See* Nagaro T, 425
Tabuchi K. *See* Kouhata T, 96
Tachibana O. *See* Hayashi Y, 138
Tada K, Shiraishi S, Kamiryo T, Nakamura H, Hirano H, Kuratsu JI, Kochi M, Saya H, Ushio Y. Analysis of loss of hererozygosity on chromosome 10 in patients with malignant astrocytic tumors: correlation with patient age and survival, 651
Tada T. *See* Goto T, 537
Tago M. *See* Shin M, 435
Taibah A. *See* Sanna M, 168
Takagi T. *See* Sahara Y, 341
Takahashi H. *See* Tateshima S, 1020
Takai K, Nishihara T, Nemoto S, Ueki K, Miyauchi H, Mishima K, Suzuki I, Kirino T. Multilocular cystic lesion associated with a giant aneurysm. Case illustration, 1081
Takayasu M. *See* Sahara Y, 341
Taki W. *See* Hanabusa K, 518
Tanaka T. *See* Nishizawa S, 915
Tanaka Y. *See* Goto T, 537
Tandon N, Vollmer DG, New PZ, Hevezi JM, Herman T, Kagan-Hallett K, West GA. Fulminant radiation-induced necrosis after stereotactic radiation therapy to the posterior fossa. Case report and review of the literature, 507
Taneda M. *See* Kitano M. Letter, 917
Tanioka K. *See* Hirano H, 89
Tanishima T. *See* Nakaguchi H, 256
Tanishita K. *See* Tateshima S, 1020
Tateshima S, Murayama Y, Villablanca P, Morino T, Takahashi H, Yamauchi T, Tanishita K, Viñuela F. Intraaneurysmal flow dynamics study featuring an acrylic aneurysm model manufactured using a computerized tomography angiogram as a mold, 1020
Tebbs S. *See* Turner CL, 764
Teeuw R. *See* van Veelen-Vincent MLC, 432

Tenner MS. *See* Spiller M, 687
Tessitore E. *See* Iaconetta G, 853
Thiex R. *See* Krings T, 816
Thomé C, Vajkoczy P, Horn P, Bauhuf C, Hübner U, Schmiedek P. Continuous monitoring of regional cerebral blood flow during temporary arterial occlusion in aneurysm surgery, 402
Thompson RC. *See* Schievink WI, 522
Thorne JA. *See* Lajeunie E, 778
Thorner MO. *See* Simmons NE, 1
Thron A. *See* Krings T, 816
Tiel RL. *See* Ganju A, 51
———. *See* Kim DH, 573, 584
Tikofsky RS. *See* Holtzman RNN, 111
Tominaga A. *See* Arita K, 897
Toms SA. *See* Weil RJ, 833
Tong CYK, Zheng PP, Pang JCS, Poon WS, Chang AR, Ng HK. Identification of novel regions of allelic loss in ependymomas by high-resolution allelotyping with 384 microsatellite markers, 9
Torbey M. *See* Chiang VL, 116
Torchia M. *See* Abrahams JM, 595
Tribble CG, Cassada DC. Book review, 370
Trojanowski JQ. *See* Laurer HL, 859
Tsuzuki N. *See* Miyazawa T, 500
Tubbs RS, Oakes WJ, Blount JP, Elton S, Salter G, Grabb PA. Surgical landmarks for the proximal portion of the axillary nerve, 998
Tucci KA. *See* Carter AB, 1040
Tuileken CAF. *See* Willems PWA, 1067
Tulleken CAF. *See* Sluyter S, 168, 169
Turner CL, Tebbs S, Smielewski P, Kirkpatrick PJ. The influence of hemodynamic stress factors on intracranial aneurysm formation, 764
Tyler-Kabara E, Kondziolka D, Flickinger JC, Lunsford LD. Stereotactic radiosurgery for residual neurocytoma. Report of four cases, 879

Uda K, Murayama Y, Gobin YP, Duckwiler GR, Viñuela F. Endovascular treatment of basilar artery trunk aneurysms with Guglielmi detachable coils: clinical experience with 41 aneurysms in 39 patients, 624
Ueki K. *See* Shin M, 435
———. *See* Takai K, 1081
Uematsu Y. *See* Nakao N, 275
Uranishi R. *See* Kaido T, 710
Urbach H. *See* Meyer B, 36, 166
Ushio Y. *See* Tada K, 651

Vajkoczy P. *See* Thomé C, 402
Valadka AB. *See* Contant CF, 560
van der Sprenkel JWB. *See* Velthuis BK, 206
———. *See* Willems PWA, 1067
Vandertop WP, van der Zwan A, Verdaasdonk RM. Third ventriculostomy, Letter, 919
van der Zwan A. *See* Vandertop WP, 919
van Gun J. *See* Hop JW, 957
van Leeuwen MS. *See* Velthuis BK, 206
van Veelen CWM. *See* Sluyter S, 168, 169
van Veelen-Vincent MLC, Delwel EJ, Teeuw R, Kurt E, de Jong DA, Brocaar MP, Pauw BKH, Avezaat CJJ, van Zanten BGA. Analysis of hearing loss after shunt replacement in patients with normal-pressure hydrocephalus, 432
van Zanten BGA. *See* van Veelen-Vincent MLC, 432
Vates GE, Berger MS, Wilson CB. Diagnosis and management of pituitary abscess: a review of twenty-four cases, 233
Velthuis BK, van Leeuwen MS, Witkamp TD, Ramos LMP, van der Sprenkel JWB, Rinkel GJE. Surgical anatomy of the cerebral arteries in patients with subarachnoid hemorrhage: comparison of computerized tomography angiography and digital subtracted angiography, 206
Verdaasdonk RM. *See* Vandertop WP, 919
Verma S. *See* Dumont AS, 466
Verweij BH, Muizelaar JP, Vinas FC. Hyperacute measurement of intracranial pressure, cerebral perfusion pressure, jugular venous oxygen saturation, and laser Doppler flowmetry, before and during removal of traumatic acute subdural hematoma, 569
Vespa P. *See* Lee JH, 222
Vestergaard-Poulsen P. *See* Sakoh M, 450
Veziers J, Lesourd M, Jollivet C, Montero-Menei C, Benoit JP, Menei P. Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Viergever MA. *See* Willems PWA, 1067
Viglione MP. *See* Reavey-Cantwell JF, 525
Villablanca P. *See* Tateshima S, 1020
Vinas FC. *See* Verweij BH, 569
Vinchon M, Noulé N, Soto-Ares G, Dhellemmes P. Subduroperitoneal drainage for subdural hematomas in infants: results in 244 cases, 249
Viñuela F. *See* Tateshima S, 1020
———. *See* Uda K, 624
von Deimling A. *See* Hayashi Y, 138
Vortmeyer AO. *See* Governale LS, 1045

Wada K. *See* Miyazawa T, 500
Wagner FC Jr. *See* Clifton GL, 733, 751
Walbridge S. *See* Proescholdt MA, 1012
Wedekind C, Klug N. Recording nasal muscle F waves and electromyographic activity of the facial muscles: a comparison of two methods used for intraoperative monitoring of facial nerve function, 974
Weil RJ, Toms SA, Johnson MD, Mealer A. Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
Weill A. *See* Redekop G, 412
Weiss MH. *See* Liu JK, 1083
West GA. *See* Tandon N, 507
Wetjen NM. *See* Friedman JA, 353
Wijnberg DS. *See* Koetsveld AC, 719
Wikler D. *See* De Witte O, 746
Wilkinson HA, Chan AS. Sensory ganglionectomy: theory, technical aspects, and clinical experience, 61
Willems PWA, Noordmans HJ, van der Sprenkel JWB, Viergever MA, Tuileken CAF. An MKM-mounted instrument holder for frameless point-stereotactic procedures: a phantom-based accuracy evaluation. Technical note, 1067

Williams MA. *See* Chiang VL, 116
Wilson CB. *See* Vates GE, 233
Wilson D. *See* Jackson TR, 700
Witham T. *See* Nakahara N, 984
Witkamp TD. *See* Velthuis BK, 206
Wlidicks EFM. *See* Henderson RD, 964
Wolach B, Sazbon L, Gavrieli R, Broda A, Schlesinger M. Correction. Letter, 170
Wollmann R. *See* Le H, 720
Wray SD, Ellis TL, Bianco S. Migratory neurocysticercosis mimicking a third ventricular colloid cyst. Case report, 122
Wrobel, CJ. Book review, 724

Xi G. *See* Masada T, 680

Yajin K. *See* Arita K, 897
Yamamoto T, Katayama Y, Fukaya C, Oshima H, Kasai M, Kobayashi K. New method of deep brain stimulation therapy using two electrodes implanted in parallel and side by side. Technical note, 1075
———. *See* Katayama Y, 213
Yamashita J. *See* Hayashi Y, 138
Yamauchi T. *See* Tateshima S, 1020
Yang GY. *See* Masada T, 680
Yokoyama S. *See* Hirano H, 89
Yonekawa Y. Supracerebellar transtentorial approach. Letter, 916
———. *See* Alkadhi, 324
Yong VW. *See* Couldwell WT, 379
Yoshida J. *See* Sahara Y, 341
Yoshimasu N. *See* Nakaguchi H, 256
Yoshimasu T. *See* Nakao N, 275
Yoshimoto T. *See* Ikeda H, 285
———. *See* Kondo T, 292
Yoshioka H. *See* Arita K, 897

Zang KD. *See* Ketter R, 601
Zerah M. *See* Sainte-Rose C, 791
Zheng PP. *See* Tong CYK, 9
Zhuang Z. *See* Governale LS, 1045
Ziyal IM, Özgen T. Transtentorial approach to posterior temporomedial structures. Letter, 541

Subject Index

Abducent nerve
Duplicated abducent nerve and its course: microanatomical study and surgery-related considerations, 853
Abscess
Diagnosis and management of pituitary abscess: a review of twenty-four cases, 233
Pituitary abscess. Letter, 1110
Absorbable hemostatic agent
Effect of absorbable topical hemostatic agents on the relaxation time of blood: an in vitro study with implications for postoperative magnetic resonance imaging, 687
Absorbable suture
Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
Accuracy
An MKM-mounted instrument holder for frameless pointstereotactic procedures: a phantom-based accuracy evaluation. Technical note, 1067
Acetylcholinesterase
The lateral sellar nerve plexus and its connections in humans, 102
Acoustic neuroma
Acoustic neuroma with malignant transformation. Case report, 518
Analysis of risk factors associated with radiosurgery for vestibular schwannoma, 440
Cerebrospinal fluid leak after acoustic surgery. Letter, 373
Hearing restoration with auditory brainstem implants after radiosurgery for neurofibromatosis Type 2, 1028
Translabyrinthine–transtentorial approach. Letter, 168
Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Acromegaly
Transsphenoidal surgery and adjuvant gamma knife treatment for growth hormone-secreting pituitary adenoma, 285
Acute subdural hematoma
Hyperacute measurement of intracranial pressure, cerebral perfusion pressure, jugular venous oxygen saturation, and laser Doppler flowmetry, before and during removal of traumatic acute subdural hematoma, 569
Role of dural fenestrations in acute subdural hematoma, 263
Adenocarcinoma
Extraosseous endolymphatic sac low-grade adenocarcinoma mimicking posterior fossa meningioma, 893
Adjuvant therapy
Cerebellar liponeurocytoma. Case report and review of the literature, 700
Adult respiratory distress syndrome
Adult respiratory distress syndrome: a complication of induced hypertension after severe head injury, 560
Age
Analysis of loss of hererozygosity on chromosome 10 in patients with malignant astrocytic tumors: correlation with patient age and survival, 651
Surgery for temporal lobe epilepsy in older patients, 242
Aggressive fibromatosis
Aggressive fibromatosis (desmoid tumor) of the radial nerve: favorable resolution. Case report, 332
Air embolism
Cerebral air embolism after lung contusion. Case illustration, 909
Akinesia
Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213
Amenorrhea
Concomitant occurrence of macroprolactin, exercise-induced amenorrhea, and a pituitary lesion: a diagnostic pitfall. Case report, 334
American Association of Neurological Surgeons
Give neurosurgery a place to stand. 2001 Presidential address, 927
Analgesia
New pain following cordotomy: clinical features, mechanisms, and clinical importance, 425
Anaplastic astrocytoma
Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
Anatomy
Surgical landmarks for the proximal portion of the axillary nerve, 998
Aneuploidy
Large cell/anaplastic medulloblastomas and medullomyoblastomas: clinicopathological and genetic features, 82
Aneurysm
Continuous monitoring of regional cerebral blood flow during temporary arterial occlusion in aneurysm surgery, 402
Endovascular treatment of basilar artery trunk aneurysms with Guglielmi detachable coils: clinical experience with 41 aneurysms in 39 patients, 624
Eyebrow incision for combined orbital osteotomy and supraorbital minicraniotomy: application to aneurysms of the anterior circulation. Technical note, 714
Spontaneous retroclival hematoma presenting as a thunderclap headache. Case report, 522
Traumatic aneurysm resulting from insertion of an intracranial pressure monitor. Case illustration, 720
Treatment of traumatic aneurysms and arteriovenous fistulas of the skull base by using endovascular stents, 412
Aneurysm clip
Clip slippage. Letter, 725
Aneurysm surgery
Possible control of intermittent cerebral ischemia by monitoring of direct-current potentials, 495
Angiogenesis
Angiogenic effect of thymidine phosphorylase on macrophages in glioblastoma multiforme, 89
Angioplasty
Balloon angioplasty to treat vasospasm after transsphenoidal surgery. Case illustration, 353
Angiosarcoma
Cerebrospinal fluid rhinorrhea caused by metastatic angiosarcoma. Case illustration, 143

Anterior capsulotomy
Contemporary psychosurgery and a look to the future, 944
Anticoagulation therapy
Mechanisms of intracerebral hemorrhage after carotid endarterectomy, 964
Apert syndrome
Negative autoregulation of fibroblast growth factor receptor 2 expression characterizing cranial development in cases of Apert (P253R mutation) and Pfeiffer (C278F mutation) syndromes and suggesting a basis for differences in their cranial phenotypes, 660
Apoptosis
Site-specific immune response to implanted gliomas, 1012
Apparent diffusion coefficient
Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
Apparent hyperprolactinemia
Concomitant occurrence of macroprolactin, exercise-induced amenorrhea, and a pituitary lesion: a diagnostic pitfall. Case report, 334
Aromatic L-amino acid decarboxylase
Enhancment of the response to levodopa therapy after intrastriatal transplantation of autologous sympathetic neurons in patients with Parkinson disease, 275
Arterial dissection
Double-barreled tack suture procedure in carotid endarterectomy. Technical note, 1079
Arteriovenous fistula
Treatment of traumatic aneurysms and arteriovenous fistulas of the skull base by using endovascular stents, 412
Arteriovenous malformation
Associated arteriovenous malformation of the orbit and brain: a case of Wyburn-Mason syndrome without retinal involvement. Case report, 346
Intractable epilepsy following radiosurgery for arteriovenous malformation. Case report, 888
Occlusive hyperemia. Letter, 165
Radiosurgery-induced brain tumor. Case report, 710
Astrocytoma
Foreign body reaction to hemostatic materials mimicking recurrent brain tumor. Report of three cases, 503
Low-grade hemispheric gliomas in adults: a critical review of extent of resection as a factor influencing outcome, 735
Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
Atmospheric pressure
Relationship of aneurysmal subarachnoid hemorrhage to changes in atmospheric pressure: results of a prospective study, 391
Auditory brainstem implant
Far-field responses to stimulation of the cochlear nucleus by microsurgically placed penetrating and surface electrodes in the cat, 845
Hearing restoration with auditory brainstem implants after radiosurgery for neurofibromatosis Type 2. Report of three cases, 1028
Auditory brainstem response
Far-field responses to stimulation of the cochlear nucleus by microsurgically placed penetrating and surface electrodes in the cat, 845
Augmentation index
The influence of hemodynamic stress factors on intracranial aneurysm formation, 764
Autoregulation
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Cerebral autoregulation following head injury, 756
Cerebral hemodynamic impairment after aneurysmal subarachnoid hemorrhage as evaluated using transcranial Doppler ultrasonography: relationship to delayed cerebral ischemia and clinical outcome, 393
Axilla
Surgical landmarks for the proximal portion of the axillary nerve, 998
Axillary nerve
Surgical landmarks for the proximal portion of the axillary nerve, 998
Axonal injury
Mild head injury increasing the brain's vulnerability to a second concussive impact, 859

Balloon occlusion
Combined surgical and endovascular techniques of flow attention to treat fusiform and complex wide-necked intracranial aneurysms that are unsuitable for clipping or coil embolization, 24
Basilar artery
Endovascular treatment of basilar artery trunk aneurysms with Guglielmi detachable coils: clinical experience with 41 aneurysms in 39 patients, 624
Basilar artery tip aneurysm
Intraaneurysmal flow dynamics study featuring an acrylic aneurysm model manufactured using a computerized tomography angiogram as a mold, 1020
Basilar artery trunk aneurysm
Endovascular treatment of basilar artery trunk aneurysms with Guglielmi detachable coils: clinical experience with 41 aneurysms in 39 patients, 624
Big-big prolactin
Concomitant occurrence of macroprolactin, exercise-induced amenorrhea, and a pituitary lesion: a diagnostic pitfall. Case report, 334
Biocompatibility
Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Biodegradable microsphere
Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Blood flow velocity
Intraaneurysmal flow dynamics study featuring an acrylic aneurysm model manufactured using a computerized tomography angiogram as a mold, 1020
Blood–brain barrier
Mild head injury increasing the brain's vulnerability to a second concussive impact, 859
Site-specific immune response to implanted gliomas, 1012
Bone morphogenetic protein
A light and electron microscopic study of ectopic tendon and ligament formation induced by bone morphogenetic protein–13 adenoviral gene therapy, 298

Index

Book review
Albright AL, Pollack IF, Adelson PD (eds). *Operative Techniques in Pediatric Neurosurgery*, 164
Albright AL, Pollack IF, Adelson PD (eds). *Principles and Practice of Pediatric Neurosurgery*, 163
Banerjee T, Domingues da Silva AA. *Signs, Syndromes, and Eponyms: Our Legacy*, 162
Bernstein M, Berger MS (eds). *Neuro-Oncology: The Essentials*, 912
Bullock R, Marmarou A, Alessandri B, Watson J (eds). *Neuromonitoring in Brain Injury*, 538
Citow JS, Macdonald RL, Kraig RP, Wollmann RL. *Comprehensive Neurosurgery Board Review*, 910
Connors JJ III, Wojak JC. *Interventional Neuroradiology: Strategies and Practical Techniques*, 911
Haines DE. *Neuroanatomy: An Atlas of Structures, Sections, and Systems, ed 5*, 912
Hütter BO. *Neuropsychological Sequelae of Subarachnoid Hemorrhage and its Treatment*, 722
Jafar JJ, Awad IA, Rosenwasser RH. *Vaxcular Malformations of the Central Nervous System*, 538
Kalb RG, Strittmatter SM (eds). *Neurobiology of Spinal Cord Injury*, 369
Loftus CM, Kresowik TF (eds). *Carotid Artery Surgery*, 370
May M, Schaitkin BM. *The Facial Nerve, May's ed 2*, 910
Popp AJ, Tranmer BI, Emrich JF, Henson SL, Ramani V, Waldman JB (eds). *A Guide to the Primary Care of Neurological Disorders*, 724
Ramsey RG. *Teaching Atlas of Spine Imaging*, 539
Sanna M, Russo A, De Donato G (eds). *Color Atlas of Otoscopy: From Diagnosis to Surgery*, 370
Sekhar LN, de Oliveira E. *Cranial Microsurgery: Approaches and Techniques*, 539
Toth BA, Keating RF, Stewart WB (eds). *An Atlas of Orbitocranial Surgery*, 162
Tschabitscher M, Klug C. *Endoscopic Anatomy of the Middle Ear*, 164
Tsementzis SA. *Differential Diagnosis in Neurology and Neurosurgery*, 723
Vaccaro AR, Albert TJ. *MasterCases: Spine Surgery*, 911
Wetmore RF, Muntz HR, McGill TJ (eds). *Pediatric Otolaryngology: Principles and Practice Pathways*, 371
Wilkins RH, Wilkins GK. *Neurosurgical Classics II*, 723
Brachial plexopathy
A brachial plexopathy due to myositis ossificans. Case report and review of the literature, 525
Brachial plexus
Outcomes in a consecutive series of 111 surgically treated plexal tumors: a review of the experience at the Louisiana State University Health Sciences Center, 51
Surgical landmarks for the proximal portion of the axillary nerve, 998
Brain abscess
Interactive magnetic resonance imaging–guided management of intracranial cystic lesions by using an open magnetic resonance imaging system, 15
Brain biopsy
An MKM-mounted instrument holder for frameless point-stereotactic procedures: a phantom-based accuracy evaluation. Technical note, 1067
Brain edema
Attenuation of intracerebral hemorrhage and thrombin-induced brain edema by overexpression of interleukin-1 receptor antagonist, 680
Brain invasion
Expression of matrix metalloproteinases 2 and 9 in meningiomas associated with different degrees of brain invasiveness and edema, 839
Brain mapping
Mapping of receptive language cortex in bilingual volunteers by using magnetic source imaging, 76
Brain neoplasm
Expression of matrix metalloproteinases 2 and 9 in meningiomas associated with different degrees of brain invasiveness and edema, 839
Stereotactic radiosurgery for residual neurocytoma. Report of four cases, 879
Surgical resection of intrinsic insular tumors: complication avoidance, 638
Brain stimulation
Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213
Brain tumor
Choroid plexus carcinoma presenting as an intraparenchymal mass. Case report, 1040
Site-specific immune response to implanted gliomas, 1012
Brainstem
Surgical management of brainstem cavernomas, 825
Brainstem auditory evoked potential
Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Breast cancer
Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Bromodeoxyuridine
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833

Carbon dioxide reactivity
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Carbon fiber pin
Delayed appearance of carbon granulomas of the scalp after use of carbon fiber pins for refixation of a stereotactic head frame. Case report, 129
Carotid endarterectomy
Double-barreled tack suture procedure in carotid endarterectomy. Technical note, 1079
Mechanisms of intracerebral hemorrhage after carotid endarterectomy, 964
Cat
Far-field responses to stimulation of the cochlear nucleus by microsurgically placed penetrating and surface electrodes in the cat, 845
Cavernous angioma
Surgical management of brainstem cavernomas, 825
Cavernous sinus
Analysis of treatment outcome after stereotactic radiosurgery for cavernous sinus meningiomas, 435
Extended transsphenoidal approach. Letter, 917
Lateral sellar nerve plexus. Letter, 167
The lateral sellar nerve plexus and its connections in humans, 102

Center variance
Intercenter variance in clinical trials of head trauma—experience of the National Acute Brain Injury Study: Hypothermia, 751
Cerebellar liponeurocytoma
Cerebellar liponeurocytoma. Case report and review of the literature, 700
Neuroimaging of cerebellar liponeurocytoma. Case report, 324
Cerebellum
Cerebellar liponeurocytoma. Case report and review of the literature, 700
Cerebral aneurysm
Intraaneurysmal flow dynamics study featuring an acrylic aneurysm model manufactured using a computerized tomography angiogram as a mold, 1020
Surgical anatomy of the cerebral arteries in patients with subarachnoid hemorrhage: comparison of computerized tomography angiography and digital subtraction angiography, 206
Cerebral arteriovenous malformation
Is stagnating flow in former feeding arteries an indication of cerebral hypoperfusion after resection of arteriovenous malformations? 36
Population-based analysis of arteriovenous malformation treatment, 633
Cerebral blood flow
Continuous monitoring of regional cerebral blood flow during temporary arterial occlusion in aneurysm surgery, 402
Effects of hyperbaric oxygenation. Letter, 544
Occlusive hyperemia. Letter, 165
Cerebral hemodynamics
Cerebral hemodynamic impairment after aneurysmal subarachnoid hemorrhage as evaluated using transcranial Doppler ultrasonography: relationship to delayed cerebral ischemia and clinical outcome, 393
Cerebral infarction
Obstructive hydrocephalus caused by intraventricular collapse of malacotic brain. Case report, 119
Cerebral ischemia
Balloon angioplasty to treat vasospasm after transsphenoidal surgery. Case illustration, 353
Continuous monitoring of regional cerebral blood flow during temporary arterial occlusion in aneurysm surgery, 402
Cerebral metabolic rate of oxygen
Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
Cerebral oxygen metabolism
Hyperacute measurement of intracranial pressure, cerebral perfusion pressure, jugular venous oxygen saturation, and laser Doppler flowmetry, before and during removal of traumatic acute subdural hematoma, 569
Cerebral oxygen saturation
Is stagnating flow in former feeding arteries an indication of cerebral hypoperfusion after resection of arteriovenous malformations? 36
Cerebral palsy
Reliability of intraoperative electrophysiological monitoring in selective posterior rhizotomy, 67
Cerebral perfusion pressure
Adult respiratory distress syndrome: a complication of induced hypertension after severe head injury, 560
Receiver–operating characteristic curves. Letter, 918
Cerebral tissue disruption
Role of dural fenestrations in acute subdural hematoma, 263
Cerebral vasoreactivity
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Cerebrospinal fluid
Translabyrinthine–transtentorial approach. Letter, 168
Cerebrospinal fluid leak
Cerebrospinal fluid leak after acoustic surgery. Letter, 373
Cerebrospinal fluid rhinorrhea
Cerebrospinal fluid rhinorrhea caused by metastatic angiosarcoma. Case illustration, 143
Cerebrovascular circulation
Is stagnating flow in former feeding arteries an indication of cerebral hypoperfusion after resection of arteriovenous malformations? 36
Cervical spine
Surgical seeding of chordomas, 798
Chemotherapy
Delayed appearance of carbon granulomas of the scalp after use of carbon fiber pins for refixation of a stereotactic head frame. Case report, 129
Chiari I malformation
Atypical hemifacial microsomia associated with Chiari I malformation and syrinx: further evidence indicating that Chiari I malformation is a disorder of the paraaxial mesoderm. Case report and review of the literature, 1034
Chiari I malformation: a rare cause of noncommunicating hydrocephalus treated by third ventriculostomy, 783
Children
Choroid plexus carcinoma presenting as an intraparenchymal mass. Case report, 1040
Management of hydrocephalus in pediatric patients with posterior fossa tumors: the role of endoscopic third ventriculostomy, 791
Chloride
A method to estimate urinary electrolyte excretion in patients at risk for developing cerebral salt wasting, 420
Chondrosarcoma
A multidisciplinary team approach to skull base chondrosarcomas, 184
Chordoma
Chordomas of the craniocervical junction: follow-up review and prognostic factors, 933
An intradural cervical chordoma mimicking a neurinoma. Case illustration, 144
A multidisciplinary team approach to skull base chordomas, 175
Surgical seeding of chordomas, 798
Choroid plexus
Choroid plexus carcinoma presenting as an intraparenchymal mass. Case report, 1040
Segmental myoclonus as the sole manifestation of a choroid plexus papilloma in the posterior fossa. Case report, 338
Chromosome
Analysis of loss of hererozygosity on chromosome 10 in patients with malignant astrocytic tumors: correlation with patient age and survival, 651
Predictive value of progression-associated chromosomal aberrations for the prognosis of meningiomas: a retrospective study of 198 cases, 601
Chronic subdural hematoma
Factors in the natural history of chronic subdural hematomas that influence their postoperative recurrence, 256

Cingulotomy
Contemporary psychosurgery and a look to the future, 944
Cisternography
Cerebrospinal fluid rhinorrhea caused by metastatic angiosarcoma. Case illustration, 143
Clinical trial
Intercenter variance in clinical trials of head trauma—experience of the National Acute Brain Injury Study: Hypothermia, 751
Clivus
Spontaneous retroclival hematoma presenting as a thunderclap headache. Case report, 522
Surgical seeding of chordomas, 798
c-myc
Large cell/anaplastic medulloblastomas and medullomyoblastomas: clinicopathological and genetic features, 82
Cochlear nucleus
Far-field responses to stimulation of the cochlear nucleus by microsurgically placed penetrating and surface electrodes in the cat, 845
Cognition
Mild head injury increasing the brain's vulnerability to a second concussive impact, 859
Collimator
Radiosurgery performed with the aid of a 3-mm collimator in the subthalamic nucleus and substantia nigra of the vervet monkey, 990
Colloid cyst
Migratory neurocysticercosis mimicking a third ventricular colloid cyst. Case report, 122
Combined drug therapy
Human glioblastoma xenografts overexpressing a tumor-specific mutant epidermal growth factor receptor sensitized to cisplatin by the AG1478 tyrosine kinase inhibitor, 472
Comparative genomic hybridization
Identification of novel regions of allelic loss in ependymomas by high-resolution allelotyping with 384 microsatellite markers, 9
Complication
Fulminant radiation-induced necrosis after stereotactic radiation therapy to the posterior fossa. Case report and review of the literature, 507
Surgical resection of intrinsic insular tumors: complication avoidance, 638
Computerized tomography
Cerebral air embolism after lung contusion. Case illustration, 909
Factors in the natural history of chronic subdural hematomas that influence their postoperative recurrence, 256
Neuroimaging of cerebellar liponeurocytoma. Case report, 324
Computerized tomography angiography
Surgical anatomy of the cerebral arteries in patients with subarachnoid hemorrhage: comparison of computerized tomography angiography and digital subtraction angiography, 206
Corcopithecus aethiops sabaeus
Radiosurgery performed with the aid of a 3-mm collimator in the subthalamic nucleus and substantia nigra of the vervet monkey, 990
Cordotomy
New pain following cordotomy: clinical features, mechanisms, and clinical importance, 425
Corpus callosotomy
Acute ventricular hemorrhage in adults with hydrocephalus managed by corpus callosotomy and fenestration of the septum pellucidum. Report of three cases, 111
Corpus callostomy (*continued*)
Strategies for reoperation after comprehensive epilepsy surgery, 615
Cortical dysplasia
Nestin expression in cortical dysplasia, 459
Omental transplantation for epilepsy. Letter, 543
Cortical localization
Mapping of receptive language cortex in bilingual volunteers by using magnetic source imaging, 76
Cortical oxygen saturation
Occlusive hyperemia. Letter, 165
Cortical stimulation
Monitoring of intraoperative motor evoked potentials to increase the safety of surgery in and around the motor cortex, 608
Recovery from complete hemiplegia following resection of a retrocentral metastasis: the prognostic value of intraoperative cortical stimulations. Case report, 1050
Corticospinal tract
Tumor involvement of the corticospinal tract: diffusion magnetic resonance tractography with intraoperative correlation. Case illustration, 1082
Cranial nerve
Lateral sellar nerve plexus. Letter, 167
The lateral sellar nerve plexus and its connections in humans, 102
Cranial nerve palsy
A multidisciplinary team approach to skull base chondrosarcomas, 184
Craniocerebral trauma
Traumatic aneurysm resulting from insertion of an intracranial pressure monitor. Case illustration, 720
Craniosynostosis
Craniosynostosis and fetal exposure to sodium valproate, 778
Negative autoregulation of fibroblast growth factor receptor 2 expression characterizing cranial development in cases of Apert (P253R mutation) and Pfeiffer (C278F mutation) syndromes and suggesting a basis for differences in their cranial phenotypes, 660
Cushing disease
Drop metastasis from pituitary adenoma. Case illustration, 719
Serum cortisol response to transsphenoidal surgery for Cushing disease, 1
Cushing, Harvey
"The art is long and the life short": the letters of Wilder Penfield and Harvey Cushing. Historical vignette, 148
No ordinary time, no ordinary men: the relationship between Harvey Cushing and Franklin D. Roosevelt, 1928–1939. Historical vignette, 354
Cystic tumor
Interactive magnetic resonance imaging–guided management of intracranial cystic lesions by using an open magnetic resonance imaging system, 15
Cytokine gene transduction
Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Cytoskeletal protein
Nestin expression in cortical dysplasia, 459
Decompression surgery
Role of dural fenestrations in acute subdural hematoma, 263

Deep brain stimulation
New method of deep brain stimulation therapy using two electrodes implanted in parallel and side by side. Technical note, 1075
Delayed cerebral ischemia
Cerebral hemodynamic impairment after aneurysmal subarachnoid hemorrhage as evaluated using transcranial Doppler ultrasonography: relationship to delayed cerebral ischemia and clinical outcome, 393
Delayed hearing loss
Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Dendritic injury
Mild head injury increasing the brain's vulnerability to a second concussive impact, 859
Desmoid tumor
Aggressive fibromatosis (desmoid tumor) of the radial nerve: favorable resolution. Case report, 332
Outcomes in a consecutive series of 111 surgically treated plexal tumors: a review of the experience at the Louisiana State University Health Sciences Center, 51
Developmental anomaly
Nestin expression in cortical dysplasia, 459
Diagnostic criteria
Management of idiopathic normal-pressure hydrocephalus: a multiinstitutional study conducted in Japan, 970
Diffuse axonal injury
Diffuse axonal injury. Letter, 1108
Diffusion-weighted imaging
Functional and diffusion-weighted magnetic resonance images of space-occupying lesions affecting the motor system: imaging the motor cortex and pyramidal tracts, 816
Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
Tumor involvement of the corticospinal tract: diffusion magnetic resonance tractography with intraoperative correlation. Case illustration, 1082
Digital subtraction angiography
Surgical anatomy of the cerebral arteries in patients with subarachnoid hemorrhage: comparison of computerized tomography angiography and digital subtraction angiography, 206
Direct current potential
Possible control of intermittent cerebral ischemia by monitoring of direct-current potentials, 495
Dissection
Combined surgical and endovascular techniques of flow attention to treat fusiform and complex wide-necked intracranial aneurysms that are unsuitable for clipping or coil embolization, 24
Dissemination
Surgical dissemination of intracranial xanthogranulomas. Case illustration, 537
DNA replication
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
Dopamine
Enhancment of the response to levodopa therapy after intrastriatal transplantation of autologous sympathetic neurons in patients with Parkinson disease, 275
Dorello canal
Duplicated abducent nerve and its course: microanatomical study and surgery-related considerations, 853
Dott, Norman
Pioneers in the development of transsphenoidal surgery: Theodor Kocher, Oskar Hirsch, and Norman Dott. Historical vignette, 1097
Drop metastasis
Drop metastasis from pituitary adenoma. Case illustration, 719
Drug delivery
Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
Efficacy of controlled-release papaverine pellets in preventing symptomatic cerebral vasospasm, 44
Drug resistance
Human glioblastoma xenografts overexpressing a tumor-specific mutant epidermal growth factor receptor sensitized to cisplatin by the AG1478 tyrosine kinase inhibitor, 472
Dural fenestration
Role of dural fenestrations in acute subdural hematoma, 263
Dural ring
Identification of the carotid artery dural ring by using three-dimensional computerized tomography angiography. Technical note, 533
Duraplasty
Ossification of autologous pericranium used in duraplasty. Case report, 350

Edema
Expression of matrix metalloproteinases 2 and 9 in meningiomas associated with different degrees of brain invasiveness and edema, 839
Treatment window for hypothermia in brain injury, 979
Electrical stimulation
Far-field responses to stimulation of the cochlear nucleus by microsurgically placed penetrating and surface electrodes in the cat, 845
Localization of human frontal eye fields: anatomical and functional findings of functional magnetic resonance imaging and intracerebral electrical stimulation, 804
Electromyography
Recording nasal muscle F waves and electromyographic activity of the facial muscles: a comparison of two methods used for intraoperative monitoring of facial nerve function, 978
Reliability of intraoperative electrophysiological monitoring in selective posterior rhizotomy, 67
Electrophysiological monitoring
Reliability of intraoperative electrophysiological monitoring in selective posterior rhizotomy, 67
Embolization
Endovascular treatment of basilar artery trunk aneurysms with Guglielmi detachable coils: clinical experience with 41 aneurysms in 39 patients, 624
Embryology
Atypical hemifacial microsomia associated with Chiari I malformation and syrinx: further evidence indicating that Chiari I malformation is a disorder of the paraaxial mesoderm. Case report and review of the literature, 1034
Encephalomalacia
Obstructive hydrocephalus caused by intraventricular collapse of malacotic brain. Case report, 119

Endolymphatic sac
Extraosseous endolymphatic sac low-grade adenocarcinoma mimicking posterior fossa meningioma, 893
Endoscopic ventriculostomy
Multilocular cystic lesion associated with a giant aneurysm. Case illustration, 1081
Endoscopy
Chiari I malformation: a rare cause of noncommunicating hydrocephalus treated by third ventriculostomy, 783
Management of hydrocephalus in pediatric patients with posterior fossa tumors: the role of endoscopic third ventriculostomy, 791
Endothelial dysfunction
Improvement of endothelial function in insulin-resistant carotid arteries treated with pravastatin, 466
Ependymoma
Identification of novel regions of allelic loss in ependymomas by high-resolution allelotyping with 384 microsatellite markers, 9
Epidermal growth factor receptor
Human glioblastoma xenografts overexpressing a tumor-specific mutant epidermal growth factor receptor sensitized to cisplatin by the AG1478 tyrosine kinase inhibitor, 472
Malignant transformation of a gangliocytoma/ganglioglioma into a glioblastoma multiforme: a molecular genetic analysis. Case report, 138
Epidermoid tumor
An unusual middle fossa interdural epidermoid tumor. Case report, 902
Epilepsy
Failure of low-dose radiosurgery to control temporal lobe epilepsy. Report of two cases, 883
Intractable epilepsy following radiosurgery for arteriovenous malformation. Case report, 888
Nestin expression in cortical dysplasia, 459
Omental transplantation for epilepsy. Letter, 543
Right temporal lobe function. Letter, 372
Strategies for reoperation after comprehensive epilepsy surgery, 615
Surgery for temporal lobe epilepsy in older patients, 242
Ethmoidectomy
Extended transsphenoidal approach. Letter, 917
Extracellular calcium concentration
Possible control of intermittent cerebral ischemia by monitoring of direct-current potentials, 495
Extracranial–intracranial bypass
Combined surgical and endovascular techniques of flow attention to treat fusiform and complex wide-necked intracranial aneurysms that are unsuitable for clipping or coil embolization, 24
Eyebrow incision
Eyebrow incision for combined orbital osteotomy and supraorbital minicraniotomy: application to aneurysms of the anterior circulation. Technical note, 714

F wave
Recording nasal muscle F waves and electromyographic activity of the facial muscles: a comparison of two methods used for intraoperative monitoring of facial nerve function, 978
Facial nerve
Recording nasal muscle F waves and electromyographic activity of the facial muscles: a comparison of two methods used for intraoperative monitoring of facial nerve function, 978
Familial condition
Familial trigeminal neuralgia. Case report and review of the literature, 513
Fiber tract
Functional and diffusion-weighted magnetic resonance images of space-occupying lesions affecting the motor system: imaging the motor cortex and pyramidal tracts, 816
Fibrin glue
Laser, fibrin glue, or suture repair of peripheral nerves: a comparative functional, histological, and morphometric study in the rat sciatic nerve, 694
Fibroblast growth factor receptor
Negative autoregulation of fibroblast growth factor receptor 2 expression characterizing cranial development in cases of Apert (P253R mutation) and Pfeiffer (C278F mutation) syndromes and suggesting a basis for differences in their cranial phenotypes, 660
Flow dynamics
Intraaneurysmal flow dynamics study featuring an acrylic aneurysm model manufactured using a computerized tomography angiogram as a mold, 1020
Fluorescence in situ hybridization
Large cell/anaplastic medulloblastomas and medullomyoblastomas: clinicopathological and genetic features, 82
Foramen magnum
Recurrence of a neurenteric cyst with malignant transformation in the foramen magnum after total resection. Case report, 341
Foramen ovale
An unusual middle fossa interdural epidermoid tumor. Case report, 902
Foreign body reaction
Foreign body reaction to hemostatic materials mimicking recurrent brain tumor. Report of three cases, 503
Frameless stereotaxis
Frameless navigation and endoscopy. Letter, 541
Interactive magnetic resonance imaging–guided management of intracranial cystic lesions by using an open magnetic resonance imaging system, 15
An MKM-mounted instrument holder for frameless point-stereotactic procedures: a phantom-based accuracy evaluation. Technical note, 1067
Frontal eye field
Localization of human frontal eye fields: anatomical and functional findings of functional magnetic resonance imaging and intracerebral electrical stimulation, 804
Fructose-induced hypertension
Improvement of endothelial function in insulin-resistant carotid arteries treated with pravastatin, 466
Functional localization
Recovery from complete hemiplegia following resection of a retrocentral metastasis: the prognostic value of intraoperative cortical stimulations. Case report, 1050
Functional magnetic resonance imaging
Functional and diffusion-weighted magnetic resonance images of space-occupying lesions affecting the motor system: imaging the motor cortex and pyramidal tracts, 816
Localization of human frontal eye fields: anatomical and functional findings of functional magnetic resonance imaging and intracerebral electrical stimulation, 804

Fusiform aneurysm
Combined surgical and endovascular techniques of flow attention to treat fusiform and complex wide-necked intracranial aneurysms that are unsuitable for clipping or coil embolization, 24

Gamma knife surgery
Acoustic neuroma with malignant transformation. Case report, 518
Analysis of treatment outcome after stereotactic radiosurgery for cavernous sinus meningiomas, 435
Intractable epilepsy following radiosurgery for arteriovenous malformation. Case report, 888
Long-term outcome after gamma knife surgery for secondary trigeminal neuralgia, 199
Radiosurgery-induced brain tumor. Case report, 710
Gangliocytoma
Prolactin-secreting gangliocytoma. Letter, 167
Ganglioglioma
Malignant transformation of a gangliocytoma/ganglioglioma into a glioblastoma multiforme: a molecular genetic analysis. Case report, 138
Ganglionectomy
Sensory ganglionectomy. Letter, 1107
Sensory ganglionectomy: theory, technical aspects, and clinical experience, 61
Gelatinase
Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Gene therapy
Attenuation of intracerebral hemorrhage and thrombin-induced brain edema by overexpression of interleukin-1 receptor antagonist, 680
A light and electron microscopic study of ectopic tendon and ligament formation induced by bone morphogenetic protein–13 adenoviral gene therapy, 298
Gerbil model
Transplantation of human fetal brain cells into ischemic lesions of adult gerbil hippocampus, 308
Germ cell tumor
Recovery from complete hemiplegia following resection of a retrocentral metastasis: the prognostic value of intraoperative cortical stimulations. Case report, 1050
Giant aneurysm
Combined surgical and endovascular techniques of flow attention to treat fusiform and complex wide-necked intracranial aneurysms that are unsuitable for clipping or coil embolization, 24
Multilocular cystic lesion associated with a giant aneurysm. Case illustration, 1081
Occult rupture of a giant vertebral artery aneurysm following proximal occlusion and intrasaccular thrombosis. Case report, 132
Glial cell line–derived neurotrophic factor
Protective effects of glial cell line–derived neurotrophic factor on hippocampal neurons after traumatic brain injury in rats, 674
Glioblastoma
Malignant transformation of a gangliocytoma/ganglioglioma into a glioblastoma multiforme: a molecular genetic analysis. Case report, 138

Glioblastoma (*continued*)
Angiogenic effect of thymidine phosphorylase on macrophages in glioblastoma multiforme, 89
Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Contamination of glioblastoma multiforme with type 1 herpes simplex virus. Case illustration, 721
Detection of simian virus 40 DNA sequence in human primary glioblastomas multiforme, 96
Human glioblastoma xenografts overexpressing a tumor-specific mutant epidermal growth factor receptor sensitized to cisplatin by the AG1478 tyrosine kinase inhibitor, 472
A multivariate analysis of 416 patients with glioblastoma multiforme: prognosis, extent of resection, and survival, 190
Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
Radiosurgery-induced brain tumor. Case report, 710
Glioma
Analysis of loss of hererozygosity on chromosome 10 in patients with malignant astrocytic tumors: correlation with patient age and survival, 651
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
Detection of simian virus 40 DNA sequence in human primary glioblastomas multiforme, 96
Low-grade hemispheric gliomas in adults: a critical review of extent of resection as a factor influencing outcome, 735
A multivariate analysis of 416 patients with glioblastoma multiforme: prognosis, extent of resection, and survival, 190
Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
Graft repair
Surgical management and outcome in patients with radial nerve lesions, 573
Surgical management and outcomes in patients with median nerve lesions, 584
Granuloma
Delayed appearance of carbon granulomas of the scalp after use of carbon fiber pins for refixation of a stereotactic head frame. Case report, 129
Foreign body reaction to hemostatic materials mimicking recurrent brain tumor. Report of three cases, 503
Growth hormone
Transsphenoidal surgery and adjuvant gamma knife treatment for growth hormone–secreting pituitary adenoma, 285
Growth hormone–releasing hormone
Prolactin-secreting gangliocytoma. Letter, 167
Gruber ligament
Duplicated abducent nerve and its course: microanatomical study and surgery-related considerations, 853
Guglielmi detachable coil
Endovascular treatment of basilar artery trunk aneurysms with Guglielmi detachable coils: clinical experience with 41 aneurysms in 39 patients, 624

Head injury
Cerebral autoregulation following head injury, 756
Diffuse axonal injury. Letter, 1108
Editorial. Propofol-infusion syndrome, 925

Head injury (*continued*)
Intercenter variance in clinical trials of head trauma—experience of the National Acute Brain Injury Study: Hypothermia, 751
Metabolic acidosis, rhabdomyolysis, and cardiovascular collapse after prolonged propofol infusion. Case report, 1053
Subduroperitoneal drainage for subdural hematomas in infants: results in 244 cases, 249
Healthcare
Give neurosurgery a place to stand. 2001 Presidential address, 927
Hearing loss
Analysis of hearing loss after shunt replacement in patients with normal-pressure hydrocephalus, 432
Hearing preservation
Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Hemangioblastoma
Diagnostic value of ^{201}Tl–single-photon emission computerized tomography studies in cases of posterior fossa hemangioblastomas, 292
Hematoma recurrence
Factors in the natural history of chronic subdural hematomas that influence their postoperative recurrence, 256
Hemifacial microsomia
Atypical hemifacial microsomia associated with Chiari I malformation and syrinx: further evidence indicating that Chiari I malformation is a disorder of the paraaxial mesoderm. Case report and review of the literature, 1034
Hemiplegia
Recovery from complete hemiplegia following resection of a retrocentral metastasis: the prognostic value of intraoperative cortical stimulations. Case report, 1050
Hemispherectomy
Omental transplantation for epilepsy. Letter, 543
Strategies for reoperation after comprehensive epilepsy surgery, 615
Hemorrhage
An unusual middle fossa interdural epidermoid tumor. Case report, 902
Herpes simplex virus
Contamination of glioblastoma multiforme with type 1 herpes simplex virus. Case illustration, 721
Hippocampus
Transplantation of human fetal brain cells into ischemic lesions of adult gerbil hippocampus, 308
Hirsch, Oskar
Pioneers in the development of transsphenoidal surgery: Theodor Kocher, Oskar Hirsch, and Norman Dott. Historical vignette, 1097
Histology
Mild head injury increasing the brain's vulnerability to a second concussive impact, 859
History of medicine
Development of the Spitz-Holter valve in Philadelphia. Historical vignette, 145
Human brain cell transplantation
Transplantation of human fetal brain cells into ischemic lesions of adult gerbil hippocampus, 308
Hydrocephalus
Acute ventricular hemorrhage in adults with hydrocephalus managed by corpus callosotomy and fenestration of the septum pellucidum. Report of three cases, 111
Hydrocephalus (*continued*)
Chiari I malformation: a rare cause of noncommunicating hydrocephalus treated by third ventriculostomy, 783
Development of the Spitz-Holter valve in Philadelphia. Historical vignette, 145
Management of hydrocephalus in pediatric patients with posterior fossa tumors: the role of endoscopic third ventriculostomy, 791
Hydroxyethyl starch
Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Hyperbaric oxygenation
Effects of hyperbaric oxygenation. Letter, 544
Hypercortisolism
Serum cortisol response to transsphenoidal surgery for Cushing disease, 1
Hyperventilation
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Hypesthesia
Long-term outcome after gamma knife surgery for secondary trigeminal neuralgia, 199
Hyponatremia
A method to estimate urinary electrolyte excretion in patients at risk for developing cerebral salt wasting, 420
Hypothermia
Intercenter variance in clinical trials of head trauma—experience of the National Acute Brain Injury Study: Hypothermia, 751
Treatment window for hypothermia in brain injury, 979

Immunotherapy
Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Impact injury
Treatment window for hypothermia in brain injury, 979
In situ hybridization
Detection of simian virus 40 DNA sequence in human primary glioblastomas multiforme, 96
Infant
Subduroperitoneal drainage for subdural hematomas in infants: results in 244 cases, 249
Inflammation
Inflammatory pseudotumor of the median nerve. Case report and review of the literature, 124
Site-specific immune response to implanted gliomas, 1012
Insula
Surgical resection of intrinsic insular tumors: complication avoidance, 638
Insulin resistance
Improvement of endothelial function in insulin-resistant carotid arteries treated with pravastatin, 466
Interdural tumor
An unusual middle fossa interdural epidermoid tumor. Case report, 902
Interleukin-1 receptor antagonist
Attenuation of intracerebral hemorrhage and thrombin-induced brain edema by overexpression of interleukin-1 receptor antagonist, 680

Intermittent ischemia
Possible control of intermittent cerebral ischemia by monitoring of direct-current potentials, 495
Internal carotid artery
Treatment of traumatic aneurysms and arteriovenous fistulas of the skull base by using endovascular stents, 412
Interposed nerve segment
Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
Intimal flap
Double-barreled tack suture procedure in carotid endarterectomy. Technical note, 1079
Intracerebral hemorrhage
Attenuation of intracerebral hemorrhage and thrombin-induced brain edema by overexpression of interleukin-1 receptor antagonist, 680
Mechanisms of intracerebral hemorrhage after carotid endarterectomy, 964
Intracranial aneurysm
The influence of hemodynamic stress factors on intracranial aneurysm formation, 764
Intracranial cyst
Multilocular cystic lesion associated with a giant aneurysm. Case illustration, 1081
Intracranial hematoma
Spontaneous retroclival hematoma presenting as a thunderclap headache. Case report, 522
Intracranial hypertension
Adult respiratory distress syndrome: a complication of induced hypertension after severe head injury, 560
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Intracranial pressure
Editorial. Propofol-infusion syndrome, 925
Effects of hyperbaric oxygenation. Letter, 544
Hyperacute measurement of intracranial pressure, cerebral perfusion pressure, jugular venous oxygen saturation, and laser Doppler flowmetry, before and during removal of traumatic acute subdural hematoma, 569
Methods of experimental and clinical assessment of the relative measurement accuracy of an intracranial pressure transducer. Technical note, 529
Receiver–operating characteristic curves. Letter, 918
Traumatic aneurysm resulting from insertion of an intracranial pressure monitor. Case illustration, 720
Intracranial stent
Treatment of traumatic aneurysms and arteriovenous fistulas of the skull base by using endovascular stents, 412
Intracranial xanthogranuloma
Surgical dissemination of intracranial xanthogranulomas. Case illustration, 537
Intradural tumor
An intradural cervical chordoma mimicking a neurinoma. Case illustration, 144
Intraoperative magnetic resonance imaging
Interactive magnetic resonance imaging–guided management of intracranial cystic lesions by using an open magnetic resonance imaging system, 15
Intraoperative magnetic resonance imaging during transsphenoidal surgery, 381
Intraoperative monitoring
Continuous monitoring of regional cerebral blood flow during temporary arterial occlusion in aneurysm surgery, 402
Monitoring of intraoperative motor evoked potentials to increase the safety of surgery in and around the motor cortex, 608
Recording nasal muscle F waves and electromyographic activity of the facial muscles: a comparison of two methods used for intraoperative monitoring of facial nerve function, 978
Ischemia
Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
Transplantation of human fetal brain cells into ischemic lesions of adult gerbil hippocampus, 308

Jugular venous oxygen saturation
Hyperacute measurement of intracranial pressure, cerebral perfusion pressure, jugular venous oxygen saturation, and laser Doppler flowmetry, before and during removal of traumatic acute subdural hematoma, 569
Juxta–dural ring aneurysm
Identification of the carotid artery dural ring by using three-dimensional computerized tomography angiography. Technical note, 533

Keyhole approach
Eyebrow incision for combined orbital osteotomy and supraorbital minicraniotomy: application to aneurysms of the anterior circulation. Technical note, 714
Kocher, Theodor
Pioneers in the development of transsphenoidal surgery: Theodor Kocher, Oskar Hirsch, and Norman Dott. Historical vignette, 1097

Language cortex
Mapping of receptive language cortex in bilingual volunteers by using magnetic source imaging, 76
Laser Doppler flowmetry
Hyperacute measurement of intracranial pressure, cerebral perfusion pressure, jugular venous oxygen saturation, and laser Doppler flowmetry, before and during removal of traumatic acute subdural hematoma, 569
Laser microsurgery
Laser, fibrin glue, or suture repair of peripheral nerves: a comparative functional, histological, and morphometric study in the rat sciatic nerve, 694
Lateral head motion
Diffuse axonal injury. Letter, 1108
Lateral sellar nerve plexus
Lateral sellar nerve plexus. Letter, 167
The lateral sellar nerve plexus and its connections in humans, 102
Lateral skull base approach
Surgery on a saccular vertebral artery–posterior inferior cerebellar artery aneurysm via the transcondylar fossa (supracondylar transjugular tubercle) approach or the transcondylar approach: surgical results and indications for using two different lateral skull base approaches, 268

Lateral ventricle
Stereotactic radiosurgery for residual neurocytoma. Report of four cases, 879
Levodopa
Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213
Ligament
A light and electron microscopic study of ectopic tendon and ligament formation induced by bone morphogenetic protein–13 adenoviral gene therapy, 298
Limbic leukotomy
Contemporary psychosurgery and a look to the future, 944
Lipid signaling pathway
Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Lipidized medulloblastoma
Cerebellar liponeurocytoma. Case report and review of the literature, 700
Lipomatous medulloblastoma
Cerebellar liponeurocytoma. Case report and review of the literature, 700
Lobectomy
Right temporal lobe function. Letter, 372
Loss of heterozygosity
Analysis of loss of hererozygosity on chromosome 10 in patients with malignant astrocytic tumors: correlation with patient age and survival, 651
Fibrous meningioma in a patient with von Hippel–Lindau disease: a genetic analysis. Case report, 1045
Identification of novel regions of allelic loss in ependymomas by high-resolution allelotyping with 384 microsatellite markers, 9
Low-pressure hydrocephalus
Ventriculopleural shunt bstrcution and postive-pressure ventilation. Case report, 116

Macaca mulatta
Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
Macrophage
Angiogenic effect of thymidine phosphorylase on macrophages in glioblastoma multiforme, 89
Macroprolactin
Concomitant occurrence of macroprolactin, exercise-induced amenorrhea, and a pituitary lesion: a diagnostic pitfall. Case report, 334
Magnetic resonance imaging
Effect of absorbable topical hemostatic agents on the relaxation time of blood: an in vitro study with implications for postoperative magnetic resonance imaging, 687
Neuroimaging of cerebellar liponeurocytoma. Case report, 324
Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
Syringomyelia in spontaneous intracranial hypotension. Case report, 905
Thickening of sphenoid sinus mucosa during the acute stage of pituitary apoplexy. Case report, 897
Tumor involvement of the corticospinal tract: diffusion magnetic resonance tractography with intraoperative correlation. Case illustration, 1082
Magnetic source imaging
Mapping of receptive language cortex in bilingual volunteers by using magnetic source imaging, 76
Magnetoencephalography
Mapping of receptive language cortex in bilingual volunteers by using magnetic source imaging, 76
Malignant transformation
Acoustic neuroma with malignant transformation. Case report, 518
Recurrence of a neurenteric cyst with malignant transformation in the foramen magnum after total resection. Case report, 341
Malignant tumor
Outcomes in a consecutive series of 111 surgically treated plexal tumors: a review of the experience at the Louisiana State University Health Sciences Center, 51
Matrix metalloproteinase
Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Median nerve injury
Surgical management and outcomes in patients with median nerve lesions, 584
Medulloblastoma
Large cell/anaplastic medulloblastomas and medullomyoblastomas: clinicopathological and genetic features, 82
Trilateral retinoblastoma variant indicative of the relevance of the retinoblastoma tumor-suppressor pathway to medulloblastomas in humans. Case report, 871
Meningioma
Analysis of treatment outcome after stereotactic radiosurgery for cavernous sinus meningiomas, 435
Expression of matrix metalloproteinases 2 and 9 in meningiomas associated with different degrees of brain invasiveness and edema, 839
Extraosseous endolymphatic sac low-grade adenocarcinoma mimicking posterior fossa meningioma, 893
Fibrous meningioma in a patient with von Hippel–Lindau disease: a genetic analysis. Case report, 1045
Predictive value of progression-associated chromosomal aberrations for the prognosis of meningiomas: a retrospective study of 198 cases, 601
Mesial temporal sclerosis
Intractable epilepsy following radiosurgery for arteriovenous malformation. Case report, 888
Mesoderm
Atypical hemifacial microsomia associated with Chiari I malformation and syrinx: further evidence indicating that Chiari I malformation is a disorder of the paraaxial mesoderm. Case report and review of the literature, 1034
Metabolic acidosis
Metabolic acidosis, rhabdomyolysis, and cardiovascular collapse after prolonged propofol infusion. Case report, 1053
Metachronous tumor
Risk factors affecting survival after brain metastases from non–small cell lung carcinoma: a follow-up study of 70 patients, 595
Metastasis
Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Recovery from complete hemiplegia following resection of a retrocentral metastasis: the prognostic value of intraoperative cortical stimulations. Case report, 1050

Metastasis (*continued*)
Risk factors affecting survival after brain metastases from non–small cell lung carcinoma: a follow-up study of 70 patients, 595
Methionine
Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
MIB-1
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
Microanatomy
Anaglyphic three-dimensional stereoscopic printing: revival of an old method for anatomical and surgical teaching and reporting. Technical note, 1057
Microsurgery
Anaglyphic three-dimensional stereoscopic printing: revival of an old method for anatomical and surgical teaching and reporting. Technical note, 1057
Middle meningeal artery
Factors in the natural history of chronic subdural hematomas that influence their postoperative recurrence, 256
Minicraniotomy
Eyebrow incision for combined orbital osteotomy and supraorbital minicraniotomy: application to aneurysms of the anterior circulation. Technical note, 714
Mortality
Influence of premorbid factors on survival following subarachnoid hemorrhage, 555
Motor cortex
Recovery from complete hemiplegia following resection of a retrocentral metastasis: the prognostic value of intraoperative cortical stimulations. Case report, 1050
Motor evoked potential
Monitoring of intraoperative motor evoked potentials to increase the safety of surgery in and around the motor cortex, 608
Mouse
Mild head injury increasing the brain's vulnerability to a second concussive impact, 859
Mucous membrane
Thickening of sphenoid sinus mucosa during the acute stage of pituitary apoplexy. Case report, 897
Multiinstitutional study
Management of idiopathic normal-pressure hydrocephalus: a multiinstitutional study conducted in Japan, 970
Multimodality treatment
Population-based analysis of arteriovenous malformation treatment, 633
Multiorgan system failure
Metabolic acidosis, rhabdomyolysis, and cardiovascular collapse after prolonged propofol infusion. Case report, 1053
Muscle force
Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
Mutant receptor
Human glioblastoma xenografts overexpressing a tumor-specific mutant epidermal growth factor receptor sensitized to cisplatin by the AG1478 tyrosine kinase inhibitor, 472
Myositis ossificans
A brachial plexopathy due to myositis ossificans. Case report and review of the literature, 525
Natural history
Factors in the natural history of chronic subdural hematomas that influence their postoperative recurrence, 256
Nelson syndrome
Drop metastasis from pituitary adenoma. Case illustration, 719
Nerve fiber
Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
Nerve graft
Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
Nerve regeneration
Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
Laser, fibrin glue, or suture repair of peripheral nerves: a comparative functional, histological, and morphometric study in the rat sciatic nerve, 694
Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
Nestin
Nestin expression in cortical dysplasia, 459
Neurenteric cyst
Recurrence of a neurenteric cyst with malignant transformation in the foramen magnum after total resection. Case report, 341
Neurinoma
An intradural cervical chordoma mimicking a neurinoma. Case illustration, 144
Neurocysticercosis
Migratory neurocysticercosis mimicking a third ventricular colloid cyst. Case report, 122
Neurocytoma
Stereotactic radiosurgery for residual neurocytoma. Report of four cases, 879
Neurodegeneration
Mild head injury increasing the brain's vulnerability to a second concussive impact, 859
Neurodegenerative disease
Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Neuroendoscopic surgery
Frameless navigation and endoscopy. Letter, 541
Neurofibroma
Outcomes in a consecutive series of 111 surgically treated plexal tumors: a review of the experience at the Louisiana State University Health Sciences Center, 51
Neurofibromatosis Type 2
Hearing restoration with auditory brainstem implants after radiosurgery for neurofibromatosis Type 2. Report of three cases, 1028
Neurogenic sarcoma
Outcomes in a consecutive series of 111 surgically treated plexal tumors: a review of the experience at the Louisiana State University Health Sciences Center, 51
Neurolysis
Surgical management and outcome in patients with radial nerve lesions, 573
Surgical management and outcomes in patients with median nerve lesions, 584
Neuron death
Protective effects of glial cell line–derived neurotrophic factor on hippocampal neurons after traumatic brain injury in rats, 674

Neuronavigation
Frameless navigation and endoscopy. Letter, 541
Neuroprotection
Protective effects of glial cell line–derived neurotrophic factor on hippocampal neurons after traumatic brain injury in rats, 674
Neuropsychology
Acute ventricular hemorrhage in adults with hydrocephalus managed by corpus callosotomy and fenestration of the septum pellucidum. Report of three cases, 111
Neurosurgery
A method to estimate urinary electrolyte excretion in patients at risk for developing cerebral salt wasting, 420
Neurosurgical history
"The art is long and the life short": the letters of Wilder Penfield and Harvey Cushing. Historical vignette, 148
Development of the Spitz-Holter valve in Philadelphia. Historical vignette, 145
The history and evolution of transsphenoidal surgery. Historical vignette, 1083
Pioneers in the development of transsphenoidal surgery: Theodor Kocher, Oskar Hirsch, and Norman Dott. Historical vignette, 1097
Neurotrophic factor
Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Neurotrophin
Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
Nimodipine
Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Nitric oxide
Improvement of endothelial function in insulin-resistant carotid arteries treated with pravastatin, 466
Nodular fasciitis
A brachial plexopathy due to myositis ossificans. Case report and review of the literature, 525
Noncommunicating hydrocephalus
Obstructive hydrocephalus caused by intraventricular collapse of malacotic brain. Case report, 119
Non–small cell lung carcinoma
Risk factors affecting survival after brain metastases from non–small cell lung carcinoma: a follow-up study of 70 patients, 595
Normal-pressure hydrocephalus
Analysis of hearing loss after shunt replacement in patients with normal-pressure hydrocephalus, 432
Management of idiopathic normal-pressure hydrocephalus: a multiinstitutional study conducted in Japan, 970

Oligodendroglioma
Low-grade hemispheric gliomas in adults: a critical review of extent of resection as a factor influencing outcome, 735
Tumor involvement of the corticospinal tract: diffusion magnetic resonance tractography with intraoperative correlation. Case illustration, 1082
Optic nerve decompression
Compressive optic neuropathy caused by renal osteodystrophy. Case report, 704
Optic neuropathy
Compressive optic neuropathy caused by renal osteodystrophy. Case report, 704
Orbital osteotomy
Eyebrow incision for combined orbital osteotomy and supraorbital minicraniotomy: application to aneurysms of the anterior circulation. Technical note, 714
Ossification
Ossification of autologous pericranium used in duraplasty. Case report, 350
Outcome
Changes in functional outcome and quality of life in patients and caregivers after aneurysmal subarachnoid hemorrhage, 957
Low-grade hemispheric gliomas in adults: a critical review of extent of resection as a factor influencing outcome, 735
Mechanisms of intracerebral hemorrhage after carotid endarterectomy, 964
Surgical management and outcome in patients with radial nerve lesions, 573
Surgical management and outcomes in patients with median nerve lesions, 584
Overall management result
Population-based analysis of arteriovenous malformation treatment, 633
Overlapping small deletion region
Identification of novel regions of allelic loss in ependymomas by high-resolution allelotyping with 384 microsatellite markers, 9
Oxidized regenerated cellulose
Effect of absorbable topical hemostatic agents on the relaxation time of blood: an in vitro study with implications for postoperative magnetic resonance imaging, 687

Pain
New pain following cordotomy: clinical features, mechanisms, and clinical importance, 425
Sensory ganglionectomy. Letter, 1107
Sensory ganglionectomy: theory, technical aspects, and clinical experience, 61
Pain control
Long-term outcome after gamma knife surgery for secondary trigeminal neuralgia, 199
Papaverine
Efficacy of controlled-release papaverine pellets in preventing symptomatic cerebral vasospasm, 44
Parasitic infection
Migratory neurocysticercosis mimicking a third ventricular colloid cyst. Case report, 122
Parasympathetic nervous system
The lateral sellar nerve plexus and its connections in humans, 102
Parkinson disease
Enhancment of the response to levodopa therapy after intrastriatal transplantation of autologous sympathetic neurons in patients with Parkinson disease, 275
Radiosurgery performed with the aid of a 3-mm collimator in the subthalamic nucleus and substantia nigra of the vervet monkey, 990
Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213

Peduncular hallucinosis
Peduncular hallucinosis due to a pineal meningioma. Case report, 500
Penfield, Wilder
"The art is long and the life short": the letters of Wilder Penfield and Harvey Cushing. Historical vignette, 148
Pericranium
Ossification of autologous pericranium used in duraplasty. Case report, 350
Peripheral nerve
Aggressive fibromatosis (desmoid tumor) of the radial nerve: favorable resolution. Case report, 332
Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
Inflammatory pseudotumor of the median nerve. Case report and review of the literature, 124
Peripheral neuropathy
A brachial plexopathy due to myositis ossificans. Case report and review of the literature, 525
Petrous apex
An unusual middle fossa interdural epidermoid tumor. Case report, 902
Pfeiffer syndrome
Negative autoregulation of fibroblast growth factor receptor 2 expression characterizing cranial development in cases of Apert (P253R mutation) and Pfeiffer (C278F mutation) syndromes and suggesting a basis for differences in their cranial phenotypes, 660
Phantom
An MKM-mounted instrument holder for frameless point-stereotactic procedures: a phantom-based accuracy evaluation. Technical note, 1067
Phosphatase and tensin homolog
Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Phosphatidylinositol 3-kinase
Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Pig
Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
Pilocytic astrocytoma
Fulminant radiation-induced necrosis after stereotactic radiation therapy to the posterior fossa. Case report and review of the literature, 507
Pineal meningioma
Peduncular hallucinosis due to a pineal meningioma. Case report, 500
Pituitary
Balloon angioplasty to treat vasospasm after transsphenoidal surgery. Case illustration, 353
Diagnosis and management of pituitary abscess: a review of twenty-four cases, 233
Pituitary abscess. Letter, 1110
Pituitary adenoma
Drop metastasis from pituitary adenoma. Case illustration, 719
Intraoperative magnetic resonance imaging during transsphenoidal surgery, 381
Serum cortisol response to transsphenoidal surgery for Cushing disease, 1
Pituitary adenoma (*continued*)
Transsphenoidal surgery and adjuvant gamma knife treatment for growth hormone-secreting pituitary adenoma, 285
Pituitary apoplexy
Thickening of sphenoid sinus mucosa during the acute stage of pituitary apoplexy. Case report, 897
Pituitary surgery
Concomitant occurrence of macroprolactin, exercise-induced amenorrhea, and a pituitary lesion: a diagnostic pitfall. Case report, 334
Pituitary tumor
The history and evolution of transsphenoidal surgery. Historical vignette, 1083
Pioneers in the development of transsphenoidal surgery: Theodor Kocher, Oskar Hirsch, and Norman Dott. Historical vignette, 1097
Pons
Surgical management of brainstem cavernomas, 825
Positive-pressure ventilation
Ventriculopleural shunt bstrcution and postive-pressure ventilation. Case report, 116
Positron emission tomography
Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water, 450
Posterior cerebral artery
Transtentorial approach to posterior temporomedial structures. Letter, 541
Posterior fossa tumor
Management of hydrocephalus in pediatric patients with posterior fossa tumors: the role of endoscopic third ventriculostomy, 791
Segmental myoclonus as the sole manifestation of a choroid plexus papilloma in the posterior fossa. Case report, 338
Posterior inferior cerebellar artery
Surgery on a saccular vertebral artery–posterior inferior cerebellar artery aneurysm via the transcondylar fossa (supracondylar transjugular tubercle) approach or the transcondylar approach: surgical results and indications for using two different lateral skull base approaches, 268
Primitive neuroectodermal tumor
Foreign body reaction to hemostatic materials mimicking recurrent brain tumor. Report of three cases, 503
Prognosis
Chordomas of the craniocervical junction: follow-up review and prognostic factors, 933
A multivariate analysis of 416 patients with glioblastoma multiforme: prognosis, extent of resection, and survival, 190
Predictive value of progression-associated chromosomal aberrations for the prognosis of meningiomas: a retrospective study of 198 cases, 601
Prognostic factor
Positron emission tomography with injection of methionine as a prognostic factor in glioma, 746
Progression
Malignant transformation of a gangliocytoma/ganglioglioma into a glioblastoma multiforme: a molecular genetic analysis. Case report, 138
Predictive value of progression-associated chromosomal aberrations for the prognosis of meningiomas: a retrospective study of 198 cases, 601

Prolactin
Prolactin-secreting gangliocytoma. Letter, 167
Proliferating cell nuclear antigen
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
Proliferation index
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
Propofol
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Editorial. Propofol-infusion syndrome, 925
Metabolic acidosis, rhabdomyolysis, and cardiovascular collapse after prolonged propofol infusion. Case report, 1053
Proximal (vascular) occlusion
Combined surgical and endovascular techniques of flow attention to treat fusiform and complex wide-necked intracranial aneurysms that are unsuitable for clipping or coil embolization, 24
Pseudotumor
Inflammatory pseudotumor of the median nerve. Case report and review of the literature, 124
Psychosurgery
Contemporary psychosurgery and a look to the future, 944

Quadrigeminal plate
Peduncular hallucinosis due to a pineal meningioma. Case report, 500
Quality of life
Changes in functional outcome and quality of life in patients and caregivers after aneurysmal subarachnoid hemorrhage, 957

Radial nerve injury
Surgical management and outcome in patients with radial nerve lesions, 573
Radiation complication
Acoustic neuroma with malignant transformation. Case report, 518
Analysis of risk factors associated with radiosurgery for vestibular schwannoma, 440
Radiation necrosis
Fulminant radiation-induced necrosis after stereotactic radiation therapy to the posterior fossa. Case report and review of the literature, 507
Radiation therapy
Chordomas of the craniocervical junction: follow-up review and prognostic factors, 933
Delayed appearance of carbon granulomas of the scalp after use of carbon fiber pins for refixation of a stereotactic head frame. Case report, 129
Radionuclide cisternography
Intracranial hypotension. Letter, 914
Radiosurgery
Analysis of risk factors associated with radiosurgery for vestibular schwannoma, 440
Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Radiosurgery (*continued*)
Failure of low-dose radiosurgery to control temporal lobe epilepsy. Report of two cases, 883
Fulminant radiation-induced necrosis after stereotactic radiation therapy to the posterior fossa. Case report and review of the literature, 507
Hearing restoration with auditory brainstem implants after radiosurgery for neurofibromatosis Type 2. Report of three cases, 1028
A multidisciplinary team approach to skull base chordomas, 175
Radiosurgery-induced brain tumor. Case report, 710
Stereotactic radiosurgery for residual neurocytoma. Report of four cases, 879
Rat
Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Attenuation of intracerebral hemorrhage and thrombin-induced brain edema by overexpression of interleukin-1 receptor antagonist, 680
Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
Improvement of endothelial function in insulin-resistant carotid arteries treated with pravastatin, 466
Laser, fibrin glue, or suture repair of peripheral nerves: a comparative functional, histological, and morphometric study in the rat sciatic nerve, 694
Protective effects of glial cell line–derived neurotrophic factor on hippocampal neurons after traumatic brain injury in rats, 674
Site-specific immune response to implanted gliomas, 1012
Treatment window for hypothermia in brain injury, 979
Renal osteodystrophy
Compressive optic neuropathy caused by renal osteodystrophy. Case report, 704
Resection
Low-grade hemispheric gliomas in adults: a critical review of extent of resection as a factor influencing outcome, 735
Surgical resection of intrinsic insular tumors: complication avoidance, 638
Retention index
Diagnostic value of ^{201}Tl–single-photon emission computerized tomography studies in cases of posterior fossa hemangioblastomas, 292
Retinoblastoma
Trilateral retinoblastoma variant indicative of the relevance of the retinoblastoma tumor-suppressor pathway to medulloblastomas in humans. Case report, 871
Retinoblastoma tumor-suppressor gene
Trilateral retinoblastoma variant indicative of the relevance of the retinoblastoma tumor-suppressor pathway to medulloblastomas in humans. Case report, 871
Revascularization
Supracerebellar transtentorial approach. Letter, 915
Transtentorial approach to posterior temporomedial structures. Letter, 541
Rhabdomyolysis
Metabolic acidosis, rhabdomyolysis, and cardiovascular collapse after prolonged propofol infusion. Case report, 1053

Rhizotomy
Reliability of intraoperative electrophysiological monitoring in selective posterior rhizotomy, 67
Sensory ganglionectomy. Letter, 1107
Sensory ganglionectomy: theory, technical aspects, and clinical experience, 61
Rigidity
Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213
Roosevelt, Franklin Delano
No ordinary time, no ordinary men: the relationship between Harvey Cushing and Franklin D. Roosevelt, 1928–1939. Historical vignette, 354
Ruptured aneurysm
Occult rupture of a giant vertebral artery aneurysm following proximal occlusion and intrasaccular thrombosis. Case report, 132

S phase
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
Saccadic eye movement
Localization of human frontal eye fields: anatomical and functional findings of functional magnetic resonance imaging and intracerebral electrical stimulation, 804
Saccular aneurysm
Surgery on a saccular vertebral artery–posterior inferior cerebellar artery aneurysm via the transcondylar fossa (supracondylar transjugular tubercle) approach or the transcondylar approach: surgical results and indications for using two different lateral skull base approaches, 268
Sarcoma
A brachial plexopathy due to myositis ossificans. Case report and review of the literature, 525
Scalp
Delayed appearance of carbon granulomas of the scalp after use of carbon fiber pins for refixation of a stereotactic head frame. Case report, 129
Schwann cell
Neural regeneration along longitudinal polyglactin sutures across short and extended defects in the rat sciatic nerve, 316
Schwannoma
Outcomes in a consecutive series of 111 surgically treated plexal tumors: a review of the experience at the Louisiana State University Health Sciences Center, 51
Secondary ischemic insult
Adult respiratory distress syndrome: a complication of induced hypertension after severe head injury, 560
Segmental myoclonus
Segmental myoclonus as the sole manifestation of a choroid plexus papilloma in the posterior fossa. Case report, 338
Seizure
Strategies for reoperation after comprehensive epilepsy surgery, 615
Surgery for temporal lobe epilepsy in older patients, 242
Sella turcica
Diagnosis and management of pituitary abscess: a review of twenty-four cases, 233
Pituitary abscess. Letter, 1110
Severe head injury
Adult respiratory distress syndrome: a complication of induced hypertension after severe head injury, 560
Shear stress
Intraaneurysmal flow dynamics study featuring an acrylic aneurysm model manufactured using a computerized tomography angiogram as a mold, 1020
Shunt
Analysis of hearing loss after shunt replacement in patients with normal-pressure hydrocephalus, 432
Simian virus 40
Detection of simian virus 40 DNA sequence in human primary glioblastomas multiforme, 96
Single-photon emission computerized tomography
Diagnostic value of ^{201}Tl–single-photon emission computerized tomography studies in cases of posterior fossa hemangioblastomas, 292
Skull base
Surgical seeding of chordomas, 798
Skull base chordoma
A multidisciplinary team approach to skull base chordomas, 175
Skull base microsurgery
Long-term outcome after gamma knife surgery for secondary trigeminal neuralgia, 199
Skull base tumor
A multidisciplinary team approach to skull base chondrosarcomas, 184
A multidisciplinary team approach to skull base chordomas, 175
Smoking
Influence of premorbid factors on survival following subarachnoid hemorrhage, 555
Spasticity
Reliability of intraoperative electrophysiological monitoring in selective posterior rhizotomy, 67
Spinal cord
Convection-enhanced delivery in intact and lesioned peripheral nerve, 1001
Spinal myoclonus
Segmental myoclonus as the sole manifestation of a choroid plexus papilloma in the posterior fossa. Case report, 338
Splenium
Peduncular hallucinosis due to a pineal meningioma. Case report, 500
Spontaneous intracranial hypotension
Intracranial hypotension. Letter, 914
Syringomyelia in spontaneous intracranial hypotension. Case report, 905
Stagnating flow
Is stagnating flow in former feeding arteries an indication of cerebral hypoperfusion after resection of arteriovenous malformations? 36
Statin
Improvement of endothelial function in insulin-resistant carotid arteries treated with pravastatin, 466
Stent
Treatment of traumatic aneurysms and arteriovenous fistulas of the skull base by using endovascular stents, 412
Stereoscopy
Anaglyphic three-dimensional stereoscopic printing: revival of an old method for anatomical and surgical teaching and reporting. Technical note, 1057
Stereotactic frame
An MKM-mounted instrument holder for frameless point-stereotactic procedures: a phantom-based accuracy evaluation. Technical note, 1067

Stereotactic radiosurgery
Analysis of treatment outcome after stereotactic radiosurgery for cavernous sinus meningiomas, 435
Radiosurgery performed with the aid of a 3-mm collimator in the subthalamic nucleus and substantia nigra of the vervet monkey, 990
Stereotaxis
Analysis of brain biocompatibility of drug-releasing biodegradable microspheres by scanning and transmission electron microscopy, 489
Subarachnoid hemorrhage
Cerebral hemodynamic impairment after aneurysmal subarachnoid hemorrhage as evaluated using transcranial Doppler ultrasonography: relationship to delayed cerebral ischemia and clinical outcome, 393
Changes in functional outcome and quality of life in patients and caregivers after aneurysmal subarachnoid hemorrhage, 957
The influence of hemodynamic stress factors on intracranial aneurysm formation, 764
Influence of premorbid factors on survival following subarachnoid hemorrhage, 555
Occult rupture of a giant vertebral artery aneurysm following proximal occlusion and intrasaccular thrombosis. Case report, 132
Relationship of aneurysmal subarachnoid hemorrhage to changes in atmospheric pressure: results of a prospective study, 391
Spontaneous retroclival hematoma presenting as a thunderclap headache. Case report, 522
Surgical anatomy of the cerebral arteries in patients with subarachnoid hemorrhage: comparison of computerized tomography angiography and digital subtraction angiography, 206
Subcaudate tractotomy
Contemporary psychosurgery and a look to the future, 944
Subdural drainage
Subdural hematoma. Letter, 725
Subdural hematoma
Subdural hematoma. Letter, 725
Subduroperitoneal drainage for subdural hematomas in infants: results in 244 cases, 249
Subdural hygroma
Analysis of hearing loss after shunt replacement in patients with normal-pressure hydrocephalus, 432
Subdural tumor
Surgical dissemination of intracranial xanthogranulomas. Case illustration, 537
Subduroperitoneal drainage
Subduroperitoneal drainage for subdural hematomas in infants: results in 244 cases, 249
Substantia nigra
Radiosurgery performed with the aid of a 3-mm collimator in the subthalamic nucleus and substantia nigra of the vervet monkey, 990
Subthalamic nucleus
Radiosurgery performed with the aid of a 3-mm collimator in the subthalamic nucleus and substantia nigra of the vervet monkey, 990
Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213
Supracondylar transjugular tubercle approach
Surgery on a saccular vertebral artery–posterior inferior cerebellar artery aneurysm via the transcondylar fossa (supracondylar transjugular tubercle) approach or the transcondylar approach: surgical results and indications for using two different lateral skull base approaches, 268
Surgical anatomy
Anaglyphic three-dimensional stereoscopic printing: revival of an old method for anatomical and surgical teaching and reporting. Technical note, 1057
Surgical approach
Chordomas of the craniocervical junction: follow-up review and prognostic factors, 933
Supracerebellar transtentorial approach. Letter, 915
Surgical seeding
Surgical seeding of chordomas, 798
Surgical treatment
Expression of matrix metalloproteinases 2 and 9 in meningiomas associated with different degrees of brain invasiveness and edema, 839
Survival
Analysis of loss of hererozygosity on chromosome 10 in patients with malignant astrocytic tumors: correlation with patient age and survival, 651
A multivariate analysis of 416 patients with glioblastoma multiforme: prognosis, extent of resection, and survival, 190
Suture repair
Laser, fibrin glue, or suture repair of peripheral nerves: a comparative functional, histological, and morphometric study in the rat sciatic nerve, 694
Surgical management and outcome in patients with radial nerve lesions, 573
Surgical management and outcomes in patients with median nerve lesions, 584
Sympathetic nervous system
The lateral sellar nerve plexus and its connections in humans, 102
Synchronous tumor
Risk factors affecting survival after brain metastases from non–small cell lung carcinoma: a follow-up study of 70 patients, 595
Syndrome of inappropriate antidiuretic hormone secretion
A method to estimate urinary electrolyte excretion in patients at risk for developing cerebral salt wasting, 420
Syringomyelia
Chiari I malformation: a rare cause of noncommunicating hydrocephalus treated by third ventriculostomy, 783
Syringomyelia in spontaneous intracranial hypotension. Case report, 905
Syrinx
Atypical hemifacial microsomia associated with Chiari I malformation and syrinx: further evidence indicating that Chiari I malformation is a disorder of the paraaxial mesoderm. Case report and review of the literature, 1034

Tack suture
Double-barreled tack suture procedure in carotid endarterectomy. Technical note, 1079
Temporal lobe
Right temporal lobe function. Letter, 372
Strategies for reoperation after comprehensive epilepsy surgery, 615

Temporal lobe epilepsy
Failure of low-dose radiosurgery to control temporal lobe epilepsy. Report of two cases, 883
Surgery for temporal lobe epilepsy in older patients, 242
Temporary arterial occlusion
Continuous monitoring of regional cerebral blood flow during temporary arterial occlusion in aneurysm surgery, 402
Temporary focal ischemia
Possible control of intermittent cerebral ischemia by monitoring of direct-current potentials, 495
Tendon
A light and electron microscopic study of ectopic tendon and ligament formation induced by bone morphogenetic protein–13 adenoviral gene therapy, 298
Thalamic stimulation
New method of deep brain stimulation therapy using two electrodes implanted in parallel and side by side. Technical note, 1075
Thallium-201
Diagnostic value of ^{201}Tl–single-photon emission computerized tomography studies in cases of posterior fossa hemangioblastomas, 292
Thermal diffusion flowmetry
Continuous monitoring of regional cerebral blood flow during temporary arterial occlusion in aneurysm surgery, 402
Thickening
Thickening of sphenoid sinus mucosa during the acute stage of pituitary apoplexy. Case report, 897
Third ventricle
Migratory neurocysticercosis mimicking a third ventricular colloid cyst. Case report, 122
Third ventriculostomy. Letter, 919
Third ventriculostomy
Management of hydrocephalus in pediatric patients with posterior fossa tumors: the role of endoscopic third ventriculostomy, 791
Thoracic sympathetic ganglion
Enhancment of the response to levodopa therapy after intrastriatal transplantation of autologous sympathetic neurons in patients with Parkinson disease, 275
Three-dimensional computerized tomography angiography
Identification of the carotid artery dural ring by using three-dimensional computerized tomography angiography. Technical note, 533
Three-dimensional imaging
Anaglyphic three-dimensional stereoscopic printing: revival of an old method for anatomical and surgical teaching and reporting. Technical note, 1057
Thrombin
Attenuation of intracerebral hemorrhage and thrombin-induced brain edema by overexpression of interleukin-1 receptor antagonist, 680
Thymidine phosphorylase
Angiogenic effect of thymidine phosphorylase on macrophages in glioblastoma multiforme, 89
Tic douloureux
Familial trigeminal neuralgia. Case report and review of the literature, 513
Tissue welding
Laser, fibrin glue, or suture repair of peripheral nerves: a comparative functional, histological, and morphometric study in the rat sciatic nerve, 694
Titanium
Clip slippage. Letter, 725
Touch preparation
Detection of proliferating S-phase brain tumor cells by in situ DNA replication, 833
TP53
Malignant transformation of a gangliocytoma/ganglioglioma into a glioblastoma multiforme: a molecular genetic analysis. Case report, 138
Transcondylar approach
Surgery on a saccular vertebral artery–posterior inferior cerebellar artery aneurysm via the transcondylar fossa (supracondylar transjugular tubercle) approach or the transcondylar approach: surgical results and indications for using two different lateral skull base approaches, 268
Transcranial Doppler ultrasonography
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222
Cerebral autoregulation following head injury, 756
Cerebral hemodynamic impairment after aneurysmal subarachnoid hemorrhage as evaluated using transcranial Doppler ultrasonography: relationship to delayed cerebral ischemia and clinical outcome, 393
Transducer accuracy
Methods of experimental and clinical assessment of the relative measurement accuracy of an intracranial pressure transducer. Technical note, 529
Translabyrinthine–transtentorial approach
Translabyrinthine–transtentorial approach. Letter, 168
Transoral approach
A multidisciplinary team approach to skull base chordomas, 175
Transsphenoidal surgery
Balloon angioplasty to treat vasospasm after transsphenoidal surgery. Case illustration, 353
Cerebrospinal fluid rhinorrhea caused by metastatic angiosarcoma. Case illustration, 143
Diagnosis and management of pituitary abscess: a review of twenty-four cases, 233
Extended transsphenoidal approach. Letter, 917
The history and evolution of transsphenoidal surgery. Historical vignette, 1083
Intraoperative magnetic resonance imaging during transsphenoidal surgery, 381
Pioneers in the development of transsphenoidal surgery: Theodor Kocher, Oskar Hirsch, and Norman Dott. Historical vignette, 1097
Serum cortisol response to transsphenoidal surgery for Cushing disease, 1
Transsphenoidal surgery and adjuvant gamma knife treatment for growth hormone-secreting pituitary adenoma, 285
Trauma
Subduroperitoneal drainage for subdural hematomas in infants: results in 244 cases, 249
Traumatic brain injury
Adult respiratory distress syndrome: a complication of induced hypertension after severe head injury, 560
A method to estimate urinary electrolyte excretion in patients at risk for developing cerebral salt wasting, 420
Carbon dioxide reactivity, pressure autoregulation, and metabolic suppression reactivity after head injury: a transcranial Doppler study, 222

Traumatic brain injury (*continued*)
Hyperacute measurement of intracranial pressure, cerebral perfusion pressure, jugular venous oxygen saturation, and laser Doppler flowmetry, before and during removal of traumatic acute subdural hematoma, 569
Protective effects of glial cell line–derived neurotrophic factor on hippocampal neurons after traumatic brain injury in rats, 674
Treatment window for hypothermia in brain injury, 979
Tremor
New method of deep brain stimulation therapy using two electrodes implanted in parallel and side by side. Technical note, 1075
Subthalamic nucleus stimulation for Parkinson disease: benefits observed in levodopa-intolerant patients, 213
Trigeminal neuralgia
Familial trigeminal neuralgia. Case report and review of the literature, 513
Long-term outcome after gamma knife surgery for secondary trigeminal neuralgia, 199
Trigonocephaly
Craniosynostosis and fetal exposure to sodium valproate, 778
Tumor
Cerebellar liponeurocytoma. Case report and review of the literature, 700
Surgical seeding of chordomas, 798
Tumor excision
Chordomas of the craniocervical junction: follow-up review and prognostic factors, 933
Tumor induction
Radiosurgery-induced brain tumor. Case report, 710
Tumor invasion
Association of increased phosphatidylinositol 3-kinase signaling with increased invasiveness and gelatinase activity in malignant gliomas, 480
Tumor recurrence
Foreign body reaction to hemostatic materials mimicking recurrent brain tumor. Report of three cases, 503
Recurrence of a neurenteric cyst with malignant transformation in the foramen magnum after total resection. Case report, 341
Tumor vaccine
Combination of stereotactic radiosurgery and cytokine gene–transduced tumor cell vaccination: a new strategy against metastatic brain tumors, 984
Tyrosine kinase inhibitor
Human glioblastoma xenografts overexpressing a tumor-specific mutant epidermal growth factor receptor sensitized to cisplatin by the AG1478 tyrosine kinase inhibitor, 472

Vagus nerve stimulator
Strategies for reoperation after comprehensive epilepsy surgery, 615
Valproate
Craniosynostosis and fetal exposure to sodium valproate, 778
Vascular endothelial growth factor
Angiogenic effect of thymidine phosphorylase on macrophages in glioblastoma multiforme, 89
Vascular malformation
Surgical management of brainstem cavernomas, 825
Vasoactive therapy
Vasoactive treatment for hearing preservation in acoustic neuroma surgery, 771
Vasospasm
Balloon angioplasty to treat vasospasm after transsphenoidal surgery. Case illustration, 353
Efficacy of controlled-release papaverine pellets in preventing symptomatic cerebral vasospasm, 44
Ventralis caudalis nucleus
New method of deep brain stimulation therapy using two electrodes implanted in parallel and side by side. Technical note, 1075
Ventralis intermedius nucleus
New method of deep brain stimulation therapy using two electrodes implanted in parallel and side by side. Technical note, 1075
Ventricle drainage
Obstructive hydrocephalus caused by intraventricular collapse of malacotic brain. Case report, 119
Ventricular hemorrhage
Acute ventricular hemorrhage in adults with hydrocephalus managed by corpus callosotomy and fenestration of the septum pellucidum. Report of three cases, 111
Ventriculopleural shunt
Ventriculopleural shunt bstrcution and postive-pressure ventilation. Case report, 116
Ventriculostomy
Acute ventricular hemorrhage in adults with hydrocephalus managed by corpus callosotomy and fenestration of the septum pellucidum. Report of three cases, 111
Chiari I malformation: a rare cause of noncommunicating hydrocephalus treated by third ventriculostomy, 783
Third ventriculostomy. Letter, 919
Vertebral artery
Occult rupture of a giant vertebral artery aneurysm following proximal occlusion and intrasaccular thrombosis. Case report, 132
Surgery on a saccular vertebral artery–posterior inferior cerebellar artery aneurysm via the transcondylar fossa (supracondylar transjugular tubercle) approach or the transcondylar approach: surgical results and indications for using two different lateral skull base approaches, 268
Treatment of traumatic aneurysms and arteriovenous fistulas of the skull base by using endovascular stents, 412
Vesicular monoamine transporter–2
Enhancment of the response to levodopa therapy after intrastriatal transplantation of autologous sympathetic neurons in patients with Parkinson disease, 275
Vestibular schwannoma
Analysis of risk factors associated with radiosurgery for vestibular schwannoma, 440
Hearing restoration with auditory brainstem implants after radiosurgery for neurofibromatosis Type 2. Report of three cases, 1028
von Hippel–Lindau disease
Fibrous meningioma in a patient with von Hippel–Lindau disease: a genetic analysis. Case report, 1045

Wyburn-Mason syndrome
Associated arteriovenous malformation of the orbit and brain: a case of Wyburn-Mason syndrome without retinal involvement. Case report, 346

Journal of Neurosurgery: Spine

July 2001, Volume 95, Number 1

Clinical Articles:

Threaded cortical bone dowels for lumbar interbody fusion: over 1-year mean follow up in 28 patients. Bryan Barnes, Gerald E. Rodts, Mark R. McLaughlin, and Regis W. Haid, Jr. . . . 1
Adjacent-segment morbidity after Graf ligamentoplasty compared with posterolateral lumbar fusion. Masahiro Kanayama, Tomoyuki Hashimoto, Keiichi Shigenobu, Masahito Harada, Fumihiro Oha, Yasumitsu Ohkoshi, Hiroshi Tada, Kazuki Yamamoto, and Shigeru Yamane . . . 5
Results of degenerative spondylolisthesis treated with posterior decompression alone via a new surgical approach. Tomoaki Kinoshita, Isao Ohki, Kenneth R. Roth, Kageharu Amano, and Hideshige Moriya . . . 11
Management of complex pediatric and adolescent spinal deformity. Gregory C. Wiggins, Michael J. Rauzzino, Henry M. Bartkowski, Russ P. Nockels, and Christopher I. Shaffrey . . . 17
Tarlov cysts: a study of 10 cases with review of the literature. Jean-Marc Voyadzis, Parul Bhargava, and Fraser C. Henderson 25
Clinical presentation, radiological findings, and treatment results of coccidioidmycosis involving the spine: report on 23 cases. Charles J. Wrobel, E. Thomas Chappell, and William Taylor . . . 33
Height of cervical foramina after anterior discectomy and implantation of a carbon fiber cage. Ronald H. M. A. Bartels, Roland Donk, and Roel van Dijk Azn . . . 40
Cadaveric fibula, locking plate, and allogeneic bone matrix for anterior cervical fusions after cervical discectomy for radiculopathy or myelopathy. Scott Shapiro, Patrick Connolly, Jill Donnaldson, and Todd Abel . . . 43
Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases. Tim E. Adamson . . . 51
Associated change in plantar temperature and sweating after transthoracic endoscopic T2–3 sympathectomy for palmar hyperhidrosis. Han-Jung Chen, Cheng-Loong Liang, and Kang Lu . . . 58

Laboratory Investigations:

Effect of anti–rat interleukin-6 antibody after spinal cord injury in the rat: inducible nitric oxide synthase expression, sodium- and potassium-activated, magnesium-dependent adenosine-5′-triphosphatase and superoxide dismutase activation, and ultrastructural changes. Metin Tuna, Sait Polat, Tahsin Erman, Faruk Ildan, A. Iskender Göçer, Nusa Tuna, Lülüfer Tamer, Mehmet Kaya, and Erdal Çetinalp . . . 64
Effect of frameless stereotaxy on the accuracy of C1–2 transarticular screw placement. Orin Bloch, Langston T. Holly, Jongsoo Park, Chinyere Obasi, Kee Kim, and J. Patrick Johnson . . . 74
Screw placement in transoral atlantoaxial plating systems: an anatomical study. Frank Kandziora, Niels Schulze-Stahl, Cyrus Khodadadyan-Klostermann, Ralf Schröder, and Thomas Mittlmeier . . . 80
Surgical anatomy of the C-2 pedicle. Jay U. Howington, John J. Kruse, and Deepak Awasthi . . . 88

Case Reports and Technical Note:

Primary polymorphous hemangioendothelioma of the spinal cord. Case report. Federico Roncaroli, Bernd W. Scheithauer, and Savvas Papazolgou . . . 93
Concurrent spinal dural and intradural arteriovenous fistulas. Case report. Phong Dam-Hieu, Jean-François Mineo, Alionka Bostan, Michel Nonent, and Gérard Besson . . . 96
Pyogenic abscess of the filum terminale. Case report. Claudius Thomé, Joachim K. Krauss, Dimitris Zevgaridis, and Peter Schmiedek . . . 100
Pedicular transvertebral fixation in severe grade spondylolisthesis. Report of three cases. Julian Chell and Richard C. Quinnel 105
Superior rectal artery injury following lumbar disc surgery. Case report. Yu-Duan Tsai, Pao-Chu Yu, Tao-Chen Lee, Han-Shiang Chen, Shih-Ho Wang, and Yeh-Lin Kuo . . . 108
Cysts of the atlantoaxial joint: excellent long-term outcome after posterolateral surgical decompression. Report of two cases. Marino Zorzon, Miran Skrap, Silvana Diodato, Davide Nasuelli, and Bruno Lucci . . . 111
Spontaneous craniocervical osseous fusion caused by cervical dystonia. Case report. Ralf Weigel, Michael Rittmann, and Joachim K. Krauss . . . 115
Atlantoaxial stability in ossiculum terminale. Case report. Cheng-Loong Liang, Chun-Chung Lui, Kang Lu, Tao-Chen Lee, and Han-Jung Chen . . . 119
A craniocervical injury–induced syringomyelia caused by central canal dilation secondary to acquired tonsillar herniation. Case report. Yukio Takamura, Tuyoshi Kawasaki, Akira Takahashi, Katsuyuki Nunomura, Kei Tiba, Masahiro Hasunuma, and Takeo Itou . . . 122
Use of a craniofacial miniplate for internal fixation in a young child with cervical instability. Case report. Veetai Li, Demetrius K. Lopes, and Gregory J. Bennett . . . 128
Cervical epidural actinomycosis. Case report. Behzad Eftekhar, Ebrahim Ketabchi, Mohammad Ghodsi, and Ali Ahmadi 132
Hematogenous pyogenic facet joint infection of the subaxial cervical spine. A report of two cases and review of the literature. Anthony J. Muffoletto, Remi Nader, Richard M. Westmark, Haring J. W. Nauta, Kim J. Garges, and Alexander G. Hadjipavlou . . . 135
Intraspinal cervical degenerative cyst. Report of three cases. Ossama Hatem, Gérard Bedou, Christian Négre, Jean Luis Bertrand, and Jean Camo . . . 139
Occipitocervical pseudomalignant osseous tumor of the soft tissue (fasciitis ossificans). Case report. Roberto Tarantino, Vincenzo Esposito, Paolo Missori, and Giampaolo Cantore . . . 143
Anomalous vertebral artery–induced cervical cord compression causing severe nape pain. Case report. Kei Watanabe, Kazuhiro Hasegawa, and Kou Takano . . . 146
Removal of broken pedicle screws. Technical note. Kei Miyamoto, Katsuji Shimizu, Ken Kouda, and Hideo Hosoe . . . 150

Editorials

Vascular injury. Edward C. Benzel . . . 152
Syringomyelia. Edward H. Oldfield . . . 153

Neurosurgical Forum: Letters to the Editor . . . 156

Journal of Neurosurgery: Spine

October 2001, Volume 95, Number 2

Clinical Articles:

Threshold-level repetitive transcranial electrical stimulation for intraoperative monitoring of central motor conduction. Blair Calancie, William Harris, G. Fred Brindle, Barth A. Green, and Howard J. Landy 161

Surgical management of idiopathic spinal cord herniation: a review of nine cases treated by the enlargement of the dural defect. Masahiko Watanabe, Kazuhiro Chiba, Morio Matsumoto, Hirofumi Maruiwa, Yoshikazu Fujimura, and Yoshiaki Toyama 169

Surgical management of tethered spinal cord in adults: report of 54 cases. Sabine Hüttmann, Juergen Krauss, Hartmut Collmann, Niels Sörensen, and Klaus Roosen 173

Results of applying ADCON-L gel after lumbar discectomy: the German ADCON-L study. Hans-Peter Richter, Erich Kast, Rainer Tomczak, Werner Besenfelder, and Wilhelm Gaus 179

Posterior lumbar interbody fusion for revision disc surgery: review of 50 cases in which carbon fiber cages were implanted. Bhupal Chitnavis, Giuseppe Barbagallo, Richard Selway, Ronan Dardis, Ahmed Hussain, and Richard Gullan 190

Laboratory Investigations:

Frameless stereotaxy for anterior spinal procedures. Langston T. Holly, Orin Bloch, Chinyere Obasi, and J. Patrick Johnson 196

Lateral interscalenic multilevel oblique corpectomies to repair ventral root avulsions after brachial plexus injury in humans: anatomical study and first clinical experience. Henri-Dominique Fournier, Philippe Mercier, and Philippe Menei 202

Effect of a prosthetic disc nucleus on the mobility and disc height of the L4–5 intervertebral disc postnucleotomy. Hans-Joachim Wilke, Sinead Kavanagh, Sylvia Neller, Christian Haid, and Lutz Eberhart Claes 208

Comparison of the biomechanics of hydroxyapatite and polymethylmethacrylate vertebroplasty in a cadaveric spinal compression fracture model. Patrick W. Hitchon, Vijay Goel, John Drake, Derek Taggard, Matthew Brenton, Thomas Rogge, and James C. Torner 215

Comparison of spinal cord gray matter and white matter softness: measurement by pipette aspiration method. Hiroshi Ozawa, Takeo Matsumoto, Toshiro Ohashi, Masaaki Sato, and Shoichi Kokubun 221

Case Reports:

Therapeutic options for meningeal melanocytoma. Case report. Dirk Rades, Fedor Heidenreich, Marcos Tatagiba, Almuth Brandis, and Johann Hinrich Karstans 225

Spinal meningioma after treatment for Hodgkin disease. Case report. Andrew J. Martin, Christopher J. Hammond, H. Jane Dobbs, Safa Al-Sarraj, and Nicholas W. M. Thomas 232

Segmental neurofibromatosis–induced spinal cord compression. Case report. Natarajan Muthukumar 236

Transoral resection of axial lesions augmented by intraoperative magnetic resonance imaging. Report of three cases. Taro Kaibara, R. John Hurlbert, and Garnette R. Sutherland 239

Unicameral bone cyst of a cervical vertebral body and lateral mass with associated pathological fracture in a child. Case report and review of the literature. Brian E. Snell, Adekunle Adesina, and Christopher E. Wolfla 243

Further cranial settling of the upper cervical spine following odontoidectomy. Report of two cases. Sait Naderi and Necmettin Pamir 246

Ectopic fingerlike structure in the thoracic region. Case report. Eiichi Ishikawa, Akira Matsumura, Takashi Enomoto, Takao Tsurubuchi, and Tadao Nose 250

Delayed aortic rupture caused by an implanted anterior spinal device. Case report. Tsutomu Ohnishi, Masashi Neo, Mutsumi Matsushita, Masashi Komeda, Tadaaki Koyama, and Takashi Nakamura 253

Gas-filled intradural cyst of the lumbar spine. Case report. Satoshi Kawaguchi, Toshihiko Yamashita, Kazunori Ida, Tatsuru Ikeda, and Osamu Ohwada 257

Intramuscular myxoma causing lumbar radiculopathy. Case report and review of the literature. Kern H. Guppy, Franklin Wagner, Rabih Tawk, and Lisbeth Gallagher 260

Total en bloc lumbar spondylectomy. Case report. Eric Marmor, Laurence Rhines, Jeffrey S. Weinberg, and Ziya L. Gokaslan 264

Intramedullary Ewing sarcoma of the spinal cord: consequences of molecular diagnostics. Case report. Robert J. Weil, Zhengping Zhuang, Svetlana Pack, Shimareet Kumar, Lee Helman, Brian G. Fuller, Crystall L. Mackall, and Edward H. Oldfield 270

Case Illustrations:

Traumatic thoracic disc herniation. Case illustration. Stéphane Fuentes, Phillipe Metellus, Henry Dufour, and François Grisoli 276

Tethered spinal cord with double lipomas. Case illustration. Toshiki Endo, Yasuko Yoshida, Rezio Shirane, and Takashi Yoshimoto 277

Vertebral melorheostosis. Case illustration. Florin E. Exergian, Nicolae I. Soare, and Richard W. Duncan 278

Neurosurgical Forum: Letters to the Editor 279

Index to *Journal of Neurosurgery: Spine* Volume 95

July and October 2001

Author Index

ABEL T. *See* Shapiro S, 43
ADAMSON TE. Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases, 51
ADESINA A. *See* Snell BE, 243
AHMADI A. *See* Eftekhar B, 132
AL-SARRAJ S. *See* Martin AJ, 232
AMANO K. *See* Kinoshita T, 11
APFELBAUM RI. Odontoid fractures. Letters, 158
ARDA N. *See* Naderi S, 282
AWASTHI D. *See* Howington JU, 88

BARBAGALLO G. *See* Chitnavis B, 190
BARNES B, RODTS GE, MCLAUGHLIN MR, HAID RW JR. Threaded cortical bone dowels for lumbar interbody fusion: over 1-year mean follow up in 28 patients, 1
BARTELS RHMA, DONK R, VAN DIJK AZN R. Height of cervical foramina after anterior discectomy and implantation of a carbon fiber cage, 40
BARTKOWSKI HM. *See* Wiggins GC, 17
BEDOU G. *See* Hatem O, 139
BENNETT GJ. *See* Li V, 128
BENZEL EC. Vascular injury. Editorial, 152
BERTRAND JL. *See* Hatem O, 139
BESENFELDER W. *See* Richter HP, 179
BESSON G. *See* Dam-Hieu P, 96
BHARGAVA P. *See* Voyadzis JM, 25
BHOJRAJ SY. *See* Muzumdar DP, 280
BLOCH O, HOLLY LT, PARK J, OBASI C, KIM K, JOHNSON JP. Effect of frameless stereotaxy on the accuracy of C1–2 transarticular screw placement, 74
BLOCH O. *See* Holly LT, 196
BOSTAN A. *See* Dam-Hieu P, 96
BRANDIS A. *See* Rades D, 225
BRENTON M. *See* Hitchon PW, 215
BRINDLE GF. *See* Calancie B, 161

CALANCIE B, HARRIS W, BRINDLE GF, GREEN BA, LANDY HJ. Threshold-level repetitive transcranial electrical stimulation for intraoperative monitoring of central motor conduction, 161
CAMO J. *See* Hatem O, 139
CANTORE G. *See* Tarantino R, 143
ÇETINALP E. *See* Tuna M, 64
CHAPPELL ET. *See* Wrobel CJ, 33
CHELL J, QUINNELL RC. Transvertebral pedicle fixation in severe grade spondylolisthesis. Report of three cases, 105
CHEN HJ, LIANG CL, LU K. Associated change in plantar temperature and sweating after transthoracic endoscopic T2–3 sympathectomy for palmar hyperhidrosis, 58
———. *See* Liang CL, 119
CHEN HS. *See* Tsai YD, 108
CHIBA K. *See* Watanabe M, 169
CHITNAVIS B, BARBAGALLO G, SELWAY R, DARDIS R, HUSSAIN A, GULLAN R. Posterior lumbar interbody fusion for revision disc surgery: review of 50 cases in which carbon fiber cages were implanted, 190
CLAES LE. *See* Wilke HJ, 208
CLATTERBUCK RE, MORIARITY JL, RIGAMONTI D. Intramedullary cavernoma. Letters, 156
COLLMANN H. *See* Hüttmann S, 173
CONNOLLY P. *See* Shapiro S, 43

DAM-HIEU P, MINEO JF, BOSTAN A, NONENT M, BESSON G. Concurrent spinal dural and intradural arteriovenous fistulas. Case report, 96
DARDIS R. *See* Chitnavis B, 190
DEEN HG. Open book fusion. Letters, 281
DEOPUJARI CE. *See* Muzumdar DP, 280
DICKSON RA. Open book fusion. Letters, 281
DIODATO S. *See* Zorzon M, 111
DOBBS HJ. *See* Martin AJ, 232
DONK R. *See* Bartels RHMA, 40
DONNALDSON J. *See* Shapiro S, 43
DRAKE J. *See* Hitchon PW, 215
DUFOUR H. *See* Fuentes S, 276
DUNCAN RW. *See* Exergian FE, 278
DUNSKER SB. Bilateral vocal cord paralysis. Letters, 281

EFTEKHAR B, KETABCHI E, GHODSI M, AHMADI A. Cervical epidural actinomycosis. Case report, 132
ENDO T, YOSHIDA Y, SHIRANE R, YOSHIMOTO T. Tethered spinal cord with double lipomas. Case illustration, 277
ENOMOTO T. *See* Ishikawa E, 250
ERMAN T. *See* Tuna M, 64
ESPOSITO V. *See* Tarantino R, 143
EXERGIAN FE, SOARE NI, DUNCAN RW. Vertebral melorheostosis. Case illustration, 278

FAGER CA. Laminectomy and kyphotic deformity. Letters, 157
FOURNIER HD, MERCIER P, MENEI P. Lateral interscalenic multilevel oblique corpectomies to repair ventral root avulsions after brachial plexus injury in humans: anatomical study and first clinical experience, 202
FRIEDMAN JA, PIEPGRAS DG. Remote hemorrhage. Letters, 279

FUENTES S, METELLUS P, DUFOUR H, GRISOLI F. Traumatic thoracic disc herniation. Case illustration, 276
FUJIMURA Y. *See* Watanabe M, 169
FULLER BG. *See* Weil RJ, 270

GALLAGHER L. *See* Guppy KH, 260
GARGES KJ. *See* Muffoletto AJ, 135
GAUS W. *See* Richter HP, 179
GHODSI M. *See* Eftekhar B, 132
GÖÇER AI. *See* Tuna M, 64
GOEL V. *See* Hitchon PW, 215
GOKASLAN ZL. *See* Marmor E, 264
GREEN BA. *See* Calancie B, 161
GRISOLI F. *See* Fuentes S, 276
GULLAN R. *See* Chitnavis B, 190
GUPPY KH, WAGNER F, TAWK R, GALLAGHER L. Intramuscular myxoma causing lumbar radiculopathy. Case report and review of the literature, 260

HADJIPAVLOU AG. *See* Muffoletto AJ, 135
HAID C. *See* Wilke HJ, 208
HAID RW JR. *See* Barnes B, 1
HAMMOND CJ. *See* Martin AJ, 232
HARADA M. *See* Kanayama M, 5
HARRIS W. *See* Calancie B, 161
HASEGAWA K. *See* Watanabe K, 146
HASHIMOTO T. *See* Kanayama M, 5
HASUNUMA M. *See* Takamura Y, 122
HATEM O, BEDOU G, NÉGRE C, BERTRAND JL, CAMO J. Intraspinal cervical degenerative cyst. Report of three cases, 139
HEIDENREICH F. *See* Rades D, 225
HELMAN L. *See* Weil RJ, 270
HENDERSON FC. *See* Voyadzis JM, 25
HITCHON PW, GOEL V, DRAKE J, TAGGARD D, BRENTON M, ROGGE T, TORNER JC. Comparison of the biomechanics of hydroxyapatite and polymethylmethacrylate vertebroplasty in a cadaveric spinal compression fracture model, 215
HOLLY LT, BLOCH O, OBASI C, JOHNSON JP. Frameless stereotaxy for anterior spinal procedures, 196
———. *See* Bloch O, 74
HOSOE H. *See* Miyamoto K, 150
HOWINGTON JU, KRUSE JJ, AWASTHI D. Surgical anatomy of the C-2 pedicle, 88
HURLBERT RJ. *See* Kaibara T, 239
HUSSAIN A. *See* Chitnavis B, 190
HÜTTMANN S, KRAUSS J, COLLMANN H, SÖRENSEN N, ROOSEN K. Surgical management of tethered spinal cord in adults: report of 54 cases, 173

IDA K. *See* Kawaguchi S, 257
IKEDA T. *See* Kawaguchi S, 257
İLDAN F. *See* Tuna M, 64
ISHIKAWA E, MATSUMURA A, ENOMOTO T, TSURUBUCHI T, NOSE T. Ectopic fingerlike structure in the thoracic region. Case report, 250
ITOU T. *See* Takamura Y, 122

JALLO G. Intramedullary cavernoma. Letters, 156
JOHNSON JP. *See* Bloch O, 74
———. *See* Holly LT, 196

KAIBARA T, HURLBERT RJ, SUTHERLAND GR. Transoral resection of axial lesions augmented by intraoperative magnetic resonance imaging. Report of three cases, 239
KANAYAMA M, HASHIMOTO T, SHIGENOBU K, HARADA M, OHA F, OHKOSHI Y, TADA H, YAMAMOTO K, YAMANE S. Adjacent-segment morbidity after Graf ligamentoplasty compared with posterolateral lumbar fusion, 5
KANDZIORA F, SCHULZE-STAHL N, KHODADADYAN-KLOSTERMANN C, SCHRÖDER R, MITTLMEIER T. Screw placement in transoral atlantoaxial plate systems: an anatomical study, 80
KAPTAIN GJ. Laminectomy and kyphotic deformity. Letters, 158
KARSTENS JH. *See* Rades D, 225
KAST E. *See* Richter HP, 179
KAVANAGH S. *See* Wilke HJ, 208
KAWAGUCHI S, YAMASHITA T, IDA K, IKEDA T, OHWADA O. Gas-filled intradural cyst of the lumbar spine. Case report, 257
KAWASAKI T. *See* Takamura Y, 122
KAYA M. *See* Tuna M, 64
KETABCHI E. *See* Eftekhar B, 132
KHODADADYAN-KLOSTERMANN C. *See* Kandziora F, 80
KIM K. *See* Bloch O, 74
KINOSHITA T, OHKI I, ROTH KR, AMANO K, MORIYA H. Results of degenerative spondylolisthesis treated with posterior decompression alone via a new surgical approach, 11
KOKUBUN S. *See* Ozawa H, 221
KOMEDA M. *See* Ohnishi T, 253
KOUDA K. *See* Miyamoto K, 150
KOYAMA T. *See* Ohnishi T, 253
KRAUSS J. *See* Hüttmann S, 173
KRAUSS JK. *See* Thomé C, 100
———. *See* Weigel R, 115
KRUSE JJ. *See* Howington JU, 88
KUMAR S. *See* Weil RJ, 270
KUO YL. *See* Tsai YD, 108

LANDY HJ. *See* Calancie B, 161
LECLERCQ TA. Complication of cages. Letters, 283
LEE TC. *See* Liang CL, 119
———. *See* Tsai YD, 108
LI V, LOPES DK, BENNETT GJ. Use of a craniofacial miniplate for internal fixation in a young child with cervical instability. Case report, 128
LIANG CL, LUI CC, LU K, LEE TC, CHEN HJ. Atlantoaxial stability in ossiculum terminale. Case report, 119
———. *See* Chen HJ, 58
LOPES DK. *See* Li V, 128
LU K. *See* Chen HJ, 58
———. *See* Liang CL, 119
LUCCI B. *See* Zorzon M, 111
LUI CC. *See* Liang CL, 119

MACKALL CL. *See* Weil RJ, 270
MARMOR E, RHINES LD, WEINBERG JS, GOKASLAN ZL. Total en bloc lumbar spondylectomy. Case report, 264
MARTIN AJ, HAMMOND CJ, DOBBS HJ, AL-SARRAJ S, THOMAS NWM. Spinal meningioma after treatment for Hodgkin disease. Case report, 232
MARTÍN-FERRER S. Odontoid fractures. Letters, 158
MARUIWA H. *See* Watanabe M, 169
MATSUMOTO M. *See* Watanabe M, 169
MATSUMOTO T. *See* Ozawa H, 221
MATSUMURA A. *See* Ishikawa E, 250
MATSUSHITA M. *See* Ohnishi T, 253
MCLAUGHLIN MR. *See* Barnes B, 1

MENEI P. *See* Fournier HD, 202
MERCIER P. *See* Fournier HD, 202
METELLUS P. *See* Fuentes S, 276
MINEO JF. *See* Dam-Hieu P, 96
MISSORI P. *See* Tarantino R, 143
MITTLMEIER T. *See* Kandziora F, 80
MIYAMOTO K, SHIMIZU K, KOUDA K, HOSOE H. Removal of broken pedicle screws. Technical note, 150
MORANDI X. Remote hemorrhage. Letters, 280
MORIARITY JL. *See* Clatterbuck RE, 156
MORIYA H. *See* Kinoshita T, 11
MUFFOLETTO AJ, NADER R, WESTMARK RM, NAUTA HJW, GARGES KJ, HADJIPAVLOU AG. Hematogenous pyogenic facet joint infection of the subaxial cervical spine. A report of two cases and review of the literature, 135
MUTHUKUMAR N. Segmental neurofibromatosis–induced spinal cord compression. Case report, 236
MUZUMDAR DP, DEOPUJARI CE, BHOJRAJ SY. Bilateral vocal cord paralysis. Letters, 280

NADER R. *See* Muffoletto AJ, 135
NADERI S, ARDA N. Complication of cages. Letters, 282
———, PAMIR MN. Further cranial settling of the upper cervical spine following odontoidectomy. Report of two cases, 246
NAKAMURA T. *See* Ohnishi T, 253
NASUELLI D. *See* Zorzon M, 111
NAUTA HJW. *See* Muffoletto AJ, 135
NÈGRE C. *See* Hatem O, 139
NELLER S. *See* Wilke HJ, 208
NEO M. *See* Ohnishi T, 253
NOCKELS RP. *See* Wiggins GC, 17
NONENT M. *See* Dam-Hieu P, 96
NOSE T. *See* Ishikawa E, 250
NUNOMURA K. *See* Takamura Y, 122
NYGAARD ØP. Delay of care in discs. Letters, 282

OBASI C. *See* Bloch O, 74
———. *See* Holly LT, 196
OHA F. *See* Kanayama M, 5
OHASHI T. *See* Ozawa H, 221
OHKI I. *See* Kinoshita T, 11
OHKOSHI Y. *See* Kanayama M, 5
OHNISHI T, NEO M, MATSUSHITA M, KOMEDA M, KOYAMA T, NAKAMURA T. Delayed aortic rupture caused by an implanted anterior spinal device. Case report, 253
OHWADA O. *See* Kawaguchi S, 257
OLDFIELD EH. *See* Weil RJ, 270
———. Syringomyelia. Editorial, 153
OZAWA H, MATSUMOTO T, OHASHI T, SATO M, KOKUBUN S. Comparison of spinal cord gray matter and white matter softness: measurement by pipette aspiration method, 221

PACK S. *See* Weil RJ, 270
PAMIR MN. *See* Naderi S, 246
PAPAZOGLOU S. *See* Roncaroli F, 93
PARK J. *See* Bloch O, 74
PIEPGRAS DG. *See* Friedman JA, 279
POLAT S. *See* Tuna M, 64

QUINNELL RC. *See* Chell J, 105

RADES D, HEIDENREICH F, TATAGIBA M, BRANDIS A, KARSTENS JH. Therapeutic options for meningeal melanocytoma. Case report, 225
RAUZZINO MJ. *See* Wiggins GC, 17
RHINES LD. *See* Marmor E, 264
RICHTER HP, KAST E, TOMCZAK R, BESENFELDER W, GAUS W. Results of applying ADCON-L gel after lumbar discectomy: the German ADCON-L study, 179
RIGAMONTI D. *See* Clatterbuck RE, 156
RITTMANN M. *See* Weigel R, 115
RODTS GE. *See* Barnes B, 1
ROGGE T. *See* Hitchon PW, 215
RONCAROLI F, SCHEITHAUER BW, PAPAZOGLOU S. Primary polymorphous hemangioendothelioma of the spinal cord. Case report, 93
ROOSEN K. *See* Hüttmann S, 173
ROTH KR. *See* Kinoshita T, 11
ROY MW. Complication of cages. Letters, 282

SATO M. *See* Ozawa H, 221
SCHEITHAUER BW. *See* Roncaroli F, 93
SCHMIEDEK P. *See* Thomé C, 100
SCHRÖDER R. *See* Kandziora F, 80
SCHULZE-STAHL N. *See* Kandziora F, 80
SELWAY R. *See* Chitnavis B, 190
SHAFFREY CI. *See* Wiggins GC, 17
SHAPIRO S, CONNOLLY P, DONNALDSON J, ABEL T. Cadaveric fibula, locking plate, and allogeneic bone matrix for anterior cervical fusions after cervical discectomy for radiculopathy or myelopathy, 43
SHIGENOBU K. *See* Kanayama M, 5
SHIMIZU K. *See* Miyamoto K, 150
SHIRANE R. *See* Endo T, 277
SHUEY HM JR. Delay of care in discs. Letters, 281
SKRAP M. *See* Zorzon M, 111
SNELL BE, ADESINA A, WOLFLA CE. Unicameral bone cyst of a cervical vertebral body and lateral mass with associated pathological fracture in a child. Case report and review of the literature, 243
SOARE NI. *See* Exergian FE, 278
SØRENSEN N. *See* Hüttmann S, 173
SUTHERLAND GR. *See* Kaibara T, 239

TADA H. *See* Kanayama M, 5
TAGGARD D. *See* Hitchon PW, 215
TAKAHASHI A. *See* Takamura Y, 122
TAKAMURA Y. Syringomyelia. Editorial response, 153
———, KAWASAKI T, TAKAHASHI A, NUNOMURA K, TIBA K, HASUNUMA M, ITOU T. A craniocervical injury–induced syringomyelia caused by central canal dilation secondary to acquired tonsillar herniation. Case report, 122
TAKANO K. *See* Watanabe K, 146
TAMER L. *See* Tuna M, 64
TARANTINO R, ESPOSITO V, MISSORI P, CANTORE G. Occipitocervical pseudomalignant osseous tumor of the soft tissue (fasciitis ossificans). Case report, 143
TATAGIBA M. *See* Rades D, 225
TAWK R. *See* Guppy KH, 260
TAYLOR W. *See* Wrobel CJ, 33
THOMAS NWM. *See* Martin AJ, 232
THOMÉ C, KRAUSS JK, ZEVGARIDIS D, SCHMIEDEK P. Pyogenic abscess of the filum terminale. Case report, 100
TIBA K. *See* Takamura Y, 122

TOMCZAK R. *See* Richter HP, 179
TORNER JC. *See* Hitchon PW, 215
TOYAMA Y. *See* Watanabe M, 169
TSAI YD. Vascular injury. Editorial response, 152
———, YU PC, LEE TC, CHEN HS, WANG SH, KUO YL. Superior rectal artery injury following lumbar disc surgery. Case report, 108
TSURUBUCHI T. *See* Ishikawa E, 250
TUNA M, POLAT S, ERMAN T, İLDAN F, GÖÇER Aİ, TUNA N, TAMER L, KAYA M, ÇETINALP E. Effect of anti–rat interleukin-6 antibody after spinal cord injury in the rat: inducible nitric oxide synthase expression, sodium- and potassium-activated, magnesium-dependent adenosine-5′-triphosphatase and superoxide dismutase activation, and ultrastructural changes, 64
TUNA N. *See* Tuna M, 64

VAN DIJK AZN R. *See* Bartels RHMA, 40
VOYADZIS JM, BHARGAVA P, HENDERSON FC. Tarlov cysts: a study of 10 cases with review of the literature, 25

WAGNER F. *See* Guppy KH, 260
WANG SH. *See* Tsai YD, 108
WATANABE K, HASEGAWA K, TAKANO K. Anomalous vertebral artery–induced cervical cord compression causing severe nape pain. Case report, 146
WATANABE M, CHIBA K, MATSUMOTO M, MARUIWA H, FUJIMURA Y, TOYAMA Y. Surgical management of idiopathic spinal cord herniation: a review of nine cases treated by the enlargement of the dural defect, 169
WEIGEL R, RITTMANN M, KRAUSS JK. Spontaneous craniocervical osseous fusion resulting from cervical dystonia. Case report, 115
WEIL RJ, ZHUANG Z, PACK S, KUMAR S, HELMAN L, FULLER BG, MACKALL CL, OLDFIELD EH. Intramedullary Ewing sarcoma of the spinal cord: consequences of molecular diagnostics. Case report, 270
WEINBERG JS. *See* Marmor E, 264
WESTMARK RM. *See* Muffoletto AJ, 135
WIGGINS GC, RAUZZINO MJ, BARTKOWSKI HM, NOCKELS RP, SHAFFREY CI. Management of complex pediatric and adolescent spinal deformity, 17
WILKE HJ, KAVANAGH S, NELLER S, HAID C, CLAES LE. Effect of a prosthetic disc nucleus on the mobility and disc height of the L4–5 intervertebral disc postnucleotomy, 208
WOLFLA CE. *See* Snell BE, 243
WROBEL CJ, CHAPPELL ET, TAYLOR W. Clinical presentation, radiological findings, and treatment results of coccidioidomycosis involving the spine: report on 23 cases, 33

YAMAMOTO K. *See* Kanayama M, 5
YAMANE S. *See* Kanayama M, 5
YAMASHITA T. *See* Kawaguchi S, 257
YOSHIDA Y. *See* Endo T, 277
YOSHIMOTO T. *See* Endo T, 277
YU PC. *See* Tsai YD, 108

ZEVGARIDIS D. *See* Thomé C, 100
ZHUANG Z. *See* Weil RJ, 270
ZORZON M, SKRAP M, DIODATO S, NASUELLI D, LUCCI B. Cysts of the atlantoaxial joint: excellent long-term outcome after posterolateral surgical decompression. Report of two cases, 111

Subject Index

Abscess
  Hematogenous pyogenic facet joint infection of the subaxial cervical spine. A report of two cases and review of the literature, 135
  Pyogenic abscess of the filum terminale. Case report, 100
Actinomycosis
  Cervical epidural actinomycosis. Case report, 132
Adenosine triphosphatase
  Effect of anti–rat interleukin-6 antibody after spinal cord injury in the rat: inducible nitric oxide synthase expression, sodium- and potassium-activated, magnesium-dependent adenosine-5′-triphosphatase and superoxide dismutase activation, and ultrastructural changes, 64
Adjacent segment
  Adjacent-segment morbidity after Graf ligamentoplasty compared with posterolateral lumbar fusion, 5
Adolescence
  Management of complex pediatric and adolescent spinal deformity, 17
Allogeneic bone matrix
  Cadaveric fibula, locking plate, and allogeneic bone matrix for anterior cervical fusions after cervical discectomy for radiculopathy or myelopathy, 43
Allograft
  Threaded cortical bone dowels for lumbar interbody fusion: over 1-year mean follow up in 28 patients, 1
Anatomical study
  Screw placement in transoral atlantoaxial plate systems: an anatomical study, 80
Anomalous artery
  Anomalous vertebral artery–induced cervical cord compression causing severe nape pain. Case report, 146
Anterior approach
  Frameless stereotaxy for anterior spinal procedures, 196
Anterior cervical discectomy
  Cadaveric fibula, locking plate, and allogeneic bone matrix for anterior cervical fusions after cervical discectomy for radiculopathy or myelopathy, 43
  Height of cervical foramina after anterior discectomy and implantation of a carbon fiber cage, 40
Anterior cervical fusion
  Cadaveric fibula, locking plate, and allogeneic bone matrix for anterior cervical fusions after cervical discectomy for radiculopathy or myelopathy, 43
  Use of a craniofacial miniplate for internal fixation in a young child with cervical instability. Case report, 128
Anterior spinal fusion
  Delayed aortic rupture caused by an implanted anterior spinal device. Case report, 253
Aortic rupture
  Delayed aortic rupture caused by an implanted anterior spinal device. Case report, 253
Appendage
  Ectopic fingerlike structure in the thoracic region. Case report, 250
Arteriovenous malformation
  Concurrent spinal dural and intradural arteriovenous fistulas. Case report, 96
Aspiration
  Comparison of spinal cord gray matter and white matter softness: measurement by pipette aspiration method, 221
Atlantoaxial fusion
  Spontaneous craniocervical osseous fusion resulting from cervical dystonia. Case report, 115
Atlantoaxial joint
  Cysts of the atlantoaxial joint: excellent long-term outcome after posterolateral surgical decompression. Report of two cases, 111
Atlantoaxial stabilization
  Screw placement in transoral atlantoaxial plate systems: an anatomical study, 80
Atlas
  Screw placement in transoral atlantoaxial plate systems: an anatomical study, 80
Avulsion injury
  Lateral interscalenic multilevel oblique corpectomies to repair ventral root avulsions after brachial plexus injury in humans: anatomical study and first clinical experience, 202
Axis
  Screw placement in transoral atlantoaxial plate systems: an anatomical study, 80

Bacterial infection
  Cervical epidural actinomycosis. Case report, 132
Basilar invagination
  Further cranial settling of the upper cervical spine following odontoidectomy. Report of two cases, 246
Biomechanical in vitro testing
  Effect of a prosthetic disc nucleus on the mobility and disc height of the L4–5 intervertebral disc postnucleotomy, 208
Bone cyst
  Unicameral bone cyst of a cervical vertebral body and lateral mass with associated pathological fracture in a child. Case report and review of the literature, 243
Bone
  Occipitocervical pseudomalignant osseous tumor of the soft tissue (fasciitis ossificans). Case report, 143
Bone dowel
  Threaded cortical bone dowels for lumbar interbody fusion: over 1-year mean follow up in 28 patients, 1
Brachial plexus
  Lateral interscalenic multilevel oblique corpectomies to repair ventral root avulsions after brachial plexus injury in humans: anatomical study and first clinical experience, 202

Cadaveric fibula
  Cadaveric fibula, locking plate, and allogeneic bone matrix for ante-

rior cervical fusions after cervical discectomy for radiculopathy or myelopathy, 43
Carbon fiber cage
Height of cervical foramina after anterior discectomy and implantation of a carbon fiber cage, 40
Posterior lumbar interbody fusion for revision disc surgery: review of 50 cases in which carbon fiber cages were implanted, 190
Cauda equina
Pyogenic abscess of the filum terminale. Case report, 100
Central canal
A craniocervical injury–induced syringomyelia caused by central canal dilation secondary to acquired tonsillar herniation. Case report, 122
Cerebellar tonsil
A craniocervical injury–induced syringomyelia caused by central canal dilation secondary to acquired tonsillar herniation. Case report, 122
Cervical dystonia
Spontaneous craniocervical osseous fusion resulting from cervical dystonia. Case report, 115
Cervical locking plate
Cadaveric fibula, locking plate, and allogeneic bone matrix for anterior cervical fusions after cervical discectomy for radiculopathy or myelopathy, 43
Cervical radiculopathy
Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases, 51
Cervical spine
Anomalous vertebral artery–induced cervical cord compression causing severe nape pain. Case report, 146
Atlantoaxial stability in ossiculum terminale. Case report, 119
Effect of frameless stereotaxy on the accuracy of C1–2 transarticular screw placement, 74
Hematogenous pyogenic facet joint infection of the subaxial cervical spine. A report of two cases and review of the literature, 135
Intraspinal cervical degenerative cyst. Report of three cases, 139
Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases, 51
Surgical anatomy of the C-2 pedicle, 88
Unicameral bone cyst of a cervical vertebral body and lateral mass with associated pathological fracture in a child. Case report and review of the literature, 243
Cervical spondylosis
Cadaveric fibula, locking plate, and allogeneic bone matrix for anterior cervical fusions after cervical discectomy for radiculopathy or myelopathy, 43
Cervicomedullary junction
Transoral resection of axial lesions augmented by intraoperative magnetic resonance imaging. Report of three cases, 239
Chemotherapy
Intramedullary Ewing sarcoma of the spinal cord: consequences of molecular diagnostics. Case report, 270
Spinal meningioma after treatment for Hodgkin disease. Case report, 232
Children
Management of complex pediatric and adolescent spinal deformity, 17
Chondrosarcoma
Total en bloc lumbar spondylectomy. Case report, 264
Chromosomal translocation
Intramedullary Ewing sarcoma of the spinal cord: consequences of molecular diagnostics. Case report, 270
Coccidioidomycosis
Clinical presentation, radiological findings, and treatment results of coccidioidomycosis involving the spine: report on 23 cases, 33
Compensatory sweating
Associated change in plantar temperature and sweating after transthoracic endoscopic T2–3 sympathectomy for palmar hyperhidrosis, 58
Cranial settling
Further cranial settling of the upper cervical spine following odontoidectomy. Report of two cases, 246
Cyst
Gas-filled intradural cyst of the lumbar spine. Case report, 257

Deformity correction
Management of complex pediatric and adolescent spinal deformity, 17
Dens
Cysts of the atlantoaxial joint: excellent long-term outcome after posterolateral surgical decompression. Report of two cases, 111
Disc herniation
Traumatic thoracic disc herniation. Case illustration, 276
Discectomy
Results of applying ADCON-L gel after lumbar discectomy: the German ADCON-L study, 179
Superior rectal artery injury following lumbar disc surgery. Case report, 108
Duplicated dura mater
Surgical management of idiopathic spinal cord herniation: a review of nine cases treated by the enlargement of the dural defect, 169
Dural fistula
Concurrent spinal dural and intradural arteriovenous fistulas. Case report, 96

Ectopic finger
Ectopic fingerlike structure in the thoracic region. Case report, 250
Electromyography
Threshold-level repetitive transcranial electrical stimulation for intraoperative monitoring of central motor conduction, 161
Endoscopy
Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases, 51
Endovascular therapy
Superior rectal artery injury following lumbar disc surgery. Case report, 108
Evoked potential
Threshold-level repetitive transcranial electrical stimulation for intraoperative monitoring of central motor conduction, 161
Ewing sarcoma
Intramedullary Ewing sarcoma of the spinal cord: consequences of molecular diagnostics. Case report, 270

Facet
Hematogenous pyogenic facet joint infection of the subaxial cervical spine. A report of two cases and review of the literature, 135
Failed-back syndrome
Results of applying ADCON-L gel after lumbar discectomy: the German ADCON-L study, 179
Fasciitis ossificans
Occipitocervical pseudomalignant osseous tumor of the soft tissue (fasciitis ossificans). Case report, 143
Fibrosis
Results of applying ADCON-L gel after lumbar discectomy: the German ADCON-L study, 179
Filum terminale
Pyogenic abscess of the filum terminale. Case report, 100
Surgical management of tethered spinal cord in adults: report of 54 cases, 173

Fracture
Unicameral bone cyst of a cervical vertebral body and lateral mass with associated pathological fracture in a child. Case report and review of the literature, 243
Frameless stereotaxy
Effect of frameless stereotaxy on the accuracy of C1–2 transarticular screw placement, 74

Ganglion cyst
Intraspinal cervical degenerative cyst. Report of three cases, 139
Graf ligament stabilization
Adjacent-segment morbidity after Graf ligamentoplasty compared with posterolateral lumbar fusion, 5
Gray matter
Comparison of spinal cord gray matter and white matter softness: measurement by pipette aspiration method, 221

Herniation
A craniocervical injury–induced syringomyelia caused by central canal dilation secondary to acquired tonsillar herniation. Case report, 122
Surgical management of idiopathic spinal cord herniation: a review of nine cases treated by the enlargement of the dural defect, 169
Hodgkin disease
Spinal meningioma after treatment for Hodgkin disease. Case report, 232
Human tail
Ectopic fingerlike structure in the thoracic region. Case report, 250
Hydroxyapatite
Comparison of the biomechanics of hydroxyapatite and polymethylmethacrylate vertebroplasty in a cadaveric spinal compression fracture model, 215
Hyperhidrosis
Associated change in plantar temperature and sweating after transthoracic endoscopic T2–3 sympathectomy for palmar hyperhidrosis, 58

Inducible nitric oxide synthase
Effect of anti–rat interleukin-6 antibody after spinal cord injury in the rat: inducible nitric oxide synthase expression, sodium- and potassium-activated, magnesium-dependent adenosine-5′-triphosphatase and superoxide dismutase activation, and ultrastructural changes, 64
Infection
Clinical presentation, radiological findings, and treatment results of coccidioidomycosis involving the spine: report on 23 cases, 33
Hematogenous pyogenic facet joint infection of the subaxial cervical spine. A report of two cases and review of the literature, 135
Instrumentation
Delayed aortic rupture caused by an implanted anterior spinal device. Case report, 253
Intervertebral disc
Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases, 51
Intradural fistula
Concurrent spinal dural and intradural arteriovenous fistulas. Case report, 96
Intradural gas
Gas-filled intradural cyst of the lumbar spine. Case report, 257
Intradural tumor
Pyogenic abscess of the filum terminale. Case report, 100
Intraoperative monitoring
Threshold-level repetitive transcranial electrical stimulation for intraoperative monitoring of central motor conduction, 161
Transoral resection of axial lesions augmented by intraoperative magnetic resonance imaging. Report of three cases, 239

Kyphosis
Management of complex pediatric and adolescent spinal deformity, 17

Laminectomy
Results of degenerative spondylolisthesis treated with posterior decompression alone via a new surgical approach, 11
Laminoforaminotomy
Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases, 51
Laminotomy
Results of degenerative spondylolisthesis treated with posterior decompression alone via a new surgical approach, 11
Ligamentum flavum cyst
Intraspinal cervical degenerative cyst. Report of three cases, 139
Lipoma
Surgical management of tethered spinal cord in adults: report of 54 cases, 173
Lumbar spine
Effect of a prosthetic disc nucleus on the mobility and disc height of the L4–5 intervertebral disc postnucleotomy, 208
Gas-filled intradural cyst of the lumbar spine. Case report, 257
Intramuscular myxoma causing lumbar radiculopathy. Case report and review of the literature, 260
Results of applying ADCON-L gel after lumbar discectomy: the German ADCON-L study, 179
Superior rectal artery injury following lumbar disc surgery. Case report, 108
Threaded cortical bone dowels for lumbar interbody fusion: over 1-year mean follow up in 28 patients, 1
Total en bloc lumbar spondylectomy. Case report, 264
Lumbosacral spine
Tethered spinal cord with double lipomas. Case illustration, 277

Magnetic resonance imaging
Transoral resection of axial lesions augmented by intraoperative magnetic resonance imaging. Report of three cases, 239
Melorheostosis
Vertebral melorheostosis. Case illustration, 278
Meningeal cyst
Tarlov cysts: a study of 10 cases with review of the literature, 25
Meningeal diverticulum
Tarlov cysts: a study of 10 cases with review of the literature, 25
Meningeal melanocytoma
Therapeutic options for meningeal melanocytoma. Case report, 225
Meningioma
Spinal meningioma after treatment for Hodgkin disease. Case report, 232
Metastatic disease
Therapeutic options for meningeal melanocytoma. Case report, 225
Microvascular decompression
Anomalous vertebral artery–induced cervical cord compression causing severe nape pain. Case report, 146
Modulus of elasticity
Comparison of spinal cord gray matter and white matter softness: measurement by pipette aspiration method, 221
Myelopathy
Segmental neurofibromatosis–induced spinal cord compression. Case report, 236
Myxoma
Intramuscular myxoma causing lumbar radiculopathy. Case report and review of the literature, 260

Nerve regeneration
Lateral interscalenic multilevel oblique corpectomies to repair ven-

tral root avulsions after brachial plexus injury in humans: anatomical study and first clinical experience, 202
Neural implantation
Lateral interscalenic multilevel oblique corpectomies to repair ventral root avulsions after brachial plexus injury in humans: anatomical study and first clinical experience, 202
Neuralgia
Segmental neurofibromatosis–induced spinal cord compression. Case report, 236
Neurofibromatosis
Segmental neurofibromatosis–induced spinal cord compression. Case report, 236
Neuroforamen
Height of cervical foramina after anterior discectomy and implantation of a carbon fiber cage, 40
Neuropathy
Segmental neurofibromatosis–induced spinal cord compression. Case report, 236

Occipital bone
Surgical anatomy of the C-2 pedicle, 88
Occipitocervical region
Occipitocervical pseudomalignant osseous tumor of the soft tissue (fasciitis ossificans). Case report, 143
Odontoid process
Atlantoaxial stability in ossiculum terminale. Case report, 119
Odontoidectomy
Further cranial settling of the upper cervical spine following odontoidectomy. Report of two cases, 246
Ossiculum terminale
Atlantoaxial stability in ossiculum terminale. Case report, 119
Ossification
Spontaneous craniocervical osseous fusion resulting from cervical dystonia. Case report, 115
Osteomyelitis
Clinical presentation, radiological findings, and treatment results of coccidioidomycosis involving the spine: report on 23 cases, 33

Paraplegia
Traumatic thoracic disc herniation. Case illustration, 276
Paraspinal musculature
Intramuscular myxoma causing lumbar radiculopathy. Case report and review of the literature, 260
Pediatric neurosurgery
Use of a craniofacial miniplate for internal fixation in a young child with cervical instability. Case report, 128
Pedicle
Surgical anatomy of the C-2 pedicle, 88
Pedicle fixation
Transvertebral pedicle fixation in severe grade spondylolisthesis. Report of three cases, 105
Pedicle screw
Adjacent-segment morbidity after Graf ligamentoplasty compared with posterolateral lumbar fusion, 5
Perineurial cyst
Tarlov cysts: a study of 10 cases with review of the literature, 25
Polymethymethacrylate
Comparison of the biomechanics of hydroxyapatite and polymethylmethacrylate vertebroplasty in a cadaveric spinal compression fracture model, 215
Polymorphous hemangioendothelioma
Primary polymorphous hemangioendothelioma of the spinal cord. Case report, 93
Posterior lumbar interbody fusion
Posterior lumbar interbody fusion for revision disc surgery: review of 50 cases in which carbon fiber cages were implanted, 190
Posterolateral decompression
Cysts of the atlantoaxial joint: excellent long-term outcome after posterolateral surgical decompression. Report of two cases, 111
Posterolateral fusion
Adjacent-segment morbidity after Graf ligamentoplasty compared with posterolateral lumbar fusion, 5
Prosthetic disc nucleus
Effect of a prosthetic disc nucleus on the mobility and disc height of the L4–5 intervertebral disc postnucleotomy, 208
Pseudoaneurysm
Delayed aortic rupture caused by an implanted anterior spinal device. Case report, 253

Radiation therapy
Intramedullary Ewing sarcoma of the spinal cord: consequences of molecular diagnostics. Case report, 270
Radiation-induced tumor
Spinal meningioma after treatment for Hodgkin disease. Case report, 232
Radiculopathy
Intramuscular myxoma causing lumbar radiculopathy. Case report and review of the literature, 260
Rat
Effect of anti–rat interleukin-6 antibody after spinal cord injury in the rat: inducible nitric oxide synthase expression, sodium- and potassium-activated, magnesium-dependent adenosine-5′-triphosphatase and superoxide dismutase activation, and ultrastructural changes, 64
Repetitive transcranial electrical stimulation
Threshold-level repetitive transcranial electrical stimulation for intraoperative monitoring of central motor conduction, 161
Revision disc surgery
Posterior lumbar interbody fusion for revision disc surgery: review of 50 cases in which carbon fiber cages were implanted, 190

Sacral radiculopathy
Tarlov cysts: a study of 10 cases with review of the literature, 25
Scoliosis
Management of complex pediatric and adolescent spinal deformity, 17
Screw extraction
Removal of broken pedicle screws. Technical note, 150
Screw failure
Removal of broken pedicle screws. Technical note, 150
Screw fixation
Effect of frameless stereotaxy on the accuracy of C1–2 transarticular screw placement, 74
Spinal cord
Cervical epidural actinomycosis. Case report, 132
Comparison of spinal cord gray matter and white matter softness: measurement by pipette aspiration method, 221
Concurrent spinal dural and intradural arteriovenous fistulas. Case report, 96
Intramedullary Ewing sarcoma of the spinal cord: consequences of molecular diagnostics. Case report, 270
Surgical management of idiopathic spinal cord herniation: a review of nine cases treated by the enlargement of the dural defect, 169
Spinal cord compression
Anomalous vertebral artery–induced cervical cord compression causing severe nape pain. Case report, 146
Intraspinal cervical degenerative cyst. Report of three cases, 139

Segmental neurofibromatosis–induced spinal cord compression. Case report, 236
Spinal cord injury
Effect of anti–rat interleukin-6 antibody after spinal cord injury in the rat: inducible nitric oxide synthase expression, sodium- and potassium-activated, magnesium-dependent adenosine-5′-triphosphatase and superoxide dismutase activation, and ultrastructural changes, 64
Spinal cord tumor
Primary polymorphous hemangioendothelioma of the spinal cord. Case report, 93
Spinal double lipomas
Tethered spinal cord with double lipomas. Case illustration, 277
Spinal fixation
Clinical presentation, radiological findings, and treatment results of coccidioidomycosis involving the spine: report on 23 cases, 33
Spinal fusion
Height of cervical foramina after anterior discectomy and implantation of a carbon fiber cage, 40
Surgical anatomy of the C-2 pedicle, 88
Threaded cortical bone dowels for lumbar interbody fusion: over 1-year mean follow up in 28 patients, 1
Transvertebral pedicle fixation in severe grade spondylolisthesis. Report of three cases, 105
Spinal instrumentation
Removal of broken pedicle screws. Technical note, 150
Spinal lesion
Spinal meningioma after treatment for Hodgkin disease. Case report, 232
Vertebral melorheostosis. Case illustration, 278
Spinal stabilization
Use of a craniofacial miniplate for internal fixation in a young child with cervical instability. Case report, 128
Spinal stenosis
Results of degenerative spondylolisthesis treated with posterior decompression alone via a new surgical approach, 11
Spine
Frameless stereotaxy for anterior spinal procedures, 196
Management of complex pediatric and adolescent spinal deformity, 17
Split cord malformation
Surgical management of tethered spinal cord in adults: report of 54 cases, 173
Spondylectomy
Total en bloc lumbar spondylectomy. Case report, 264
Spondylolisthesis
Results of degenerative spondylolisthesis treated with posterior decompression alone via a new surgical approach, 11
Transvertebral pedicle fixation in severe grade spondylolisthesis. Report of three cases, 105
Stenosis
Microendoscopic posterior cervical laminoforaminotomy for unilateral radiculopathy: results of a new technique in 100 cases, 51
Stereotaxy
Frameless stereotaxy for anterior spinal procedures, 196
Superoxide dismutase
Effect of anti–rat interleukin-6 antibody after spinal cord injury in the rat: inducible nitric oxide synthase expression, sodium- and potassium-activated, magnesium-dependent adenosine-5′-triphosphatase and superoxide dismutase activation, and ultrastructural changes, 64
Surgery
Management of complex pediatric and adolescent spinal deformity, 17
Sympathectomy
Associated change in plantar temperature and sweating after transthoracic endoscopic T2–3 sympathectomy for palmar hyperhidrosis, 58
Sympathetic response
Associated change in plantar temperature and sweating after transthoracic endoscopic T2–3 sympathectomy for palmar hyperhidrosis, 58
Synovial cyst
Cysts of the atlantoaxial joint: excellent long-term outcome after posterolateral surgical decompression. Report of two cases, 111
Intraspinal cervical degenerative cyst. Report of three cases, 139
Syringomyelia
A craniocervical injury–induced syringomyelia caused by central canal dilation secondary to acquired tonsillar herniation. Case report, 122

Tarlov cyst
Tarlov cysts: a study of 10 cases with review of the literature, 25
Tethered spinal cord
Surgical management of tethered spinal cord in adults: report of 54 cases, 173
Tethered spinal cord with double lipomas. Case illustration, 277
Therapeutic option
Therapeutic options for meningeal melanocytoma. Case report, 225
Thoracic spine
Traumatic thoracic disc herniation. Case illustration, 276
Vertebral melorheostosis. Case illustration, 278
Torticollis
Spontaneous craniocervical osseous fusion resulting from cervical dystonia. Case report, 115
Transoral approach
Further cranial settling of the upper cervical spine following odontoidectomy. Report of two cases, 246
Screw placement in transoral atlantoaxial plate systems: an anatomical study, 80
Transoral resection of axial lesions augmented by intraoperative magnetic resonance imaging. Report of three cases, 239
Transpedicular screw
Removal of broken pedicle screws. Technical note, 150
Tumor
Occipitocervical pseudomalignant osseous tumor of the soft tissue (fasciitis ossificans). Case report, 143

Unilateral approach
Results of degenerative spondylolisthesis treated with posterior decompression alone via a new surgical approach, 11

Vacuum disc phenomenon
Gas-filled intradural cyst of the lumbar spine. Case report, 257
Vascular injury
Superior rectal artery injury following lumbar disc surgery. Case report, 108
Vertebral artery
Anomalous vertebral artery–induced cervical cord compression causing severe nape pain. Case report, 146
Vertebroplasty
Comparison of the biomechanics of hydroxyapatite and polymethylmethacrylate vertebroplasty in a cadaveric spinal compression fracture model, 215

White matter
Comparison of spinal cord gray matter and white matter softness: measurement by pipette aspiration method, 221